

1/56

FIG. 1

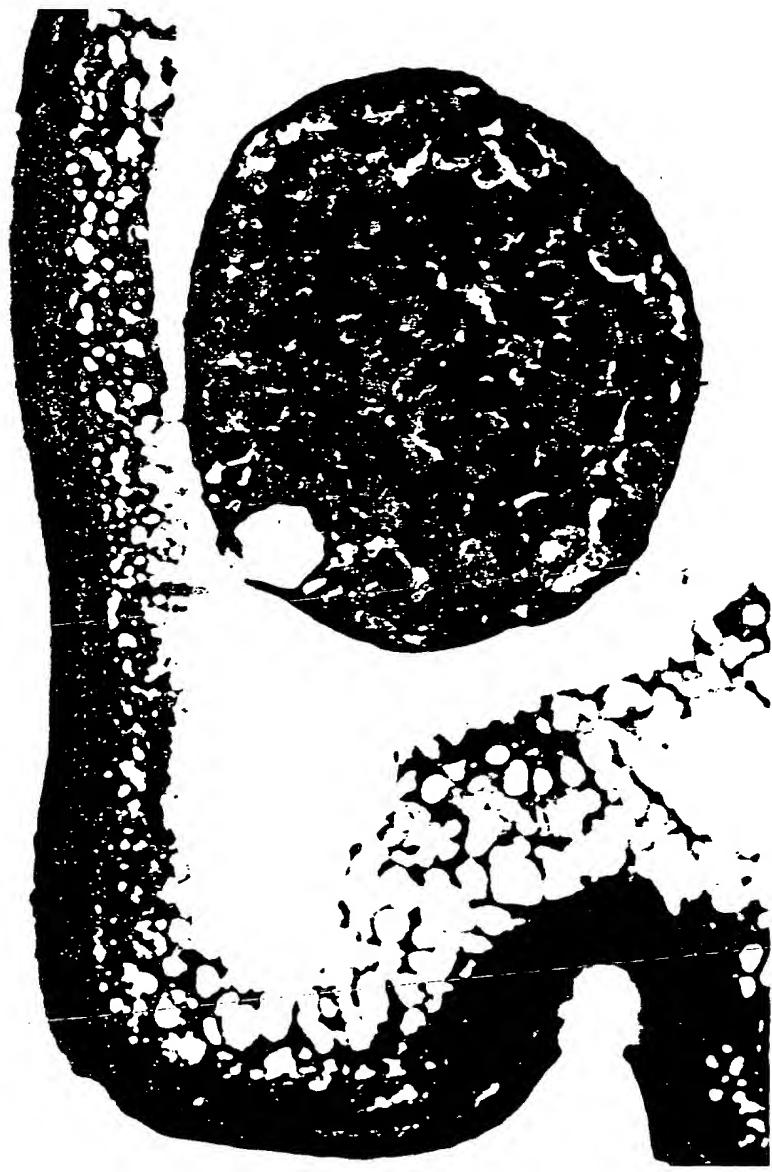


FIG. 2

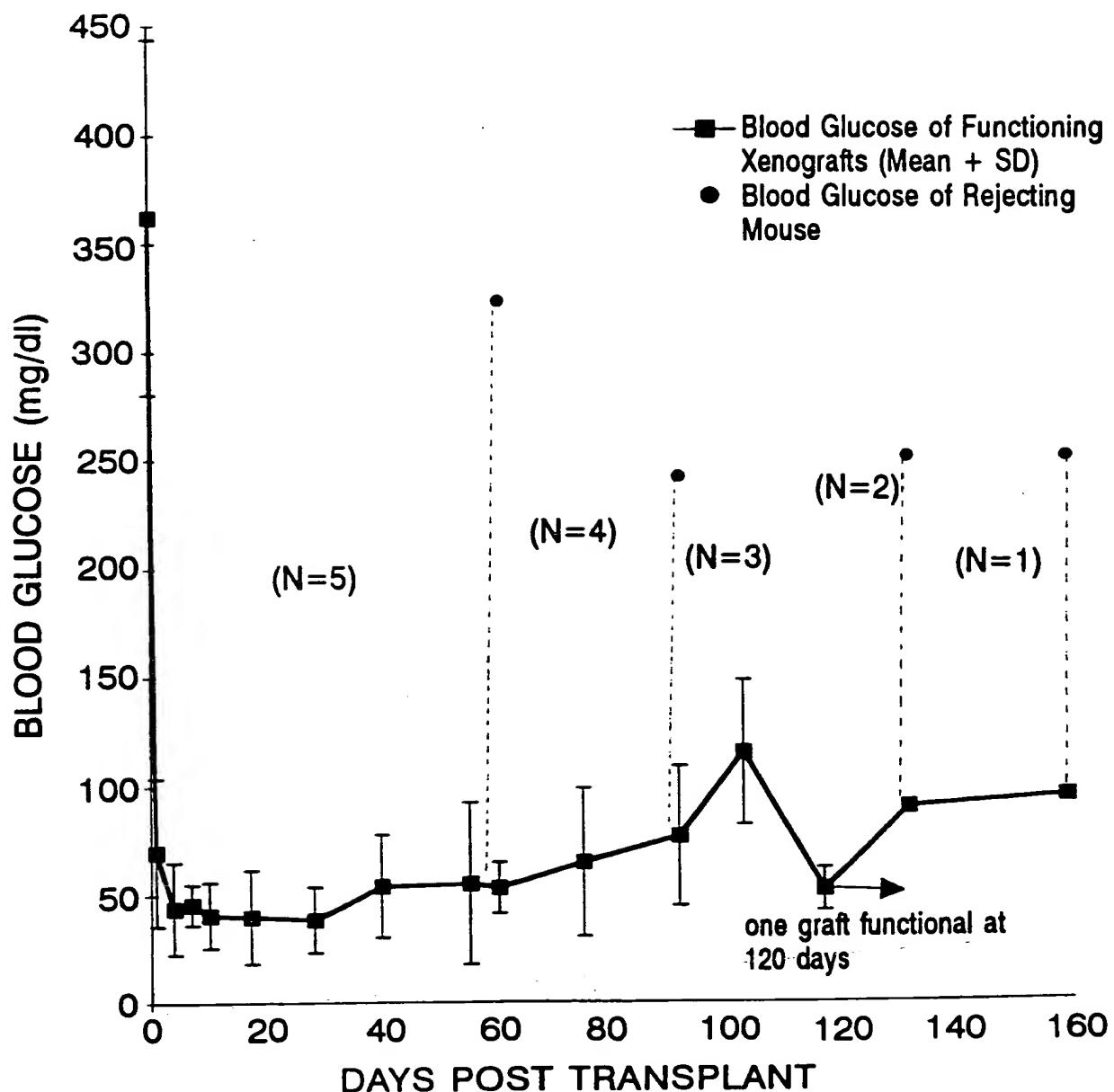


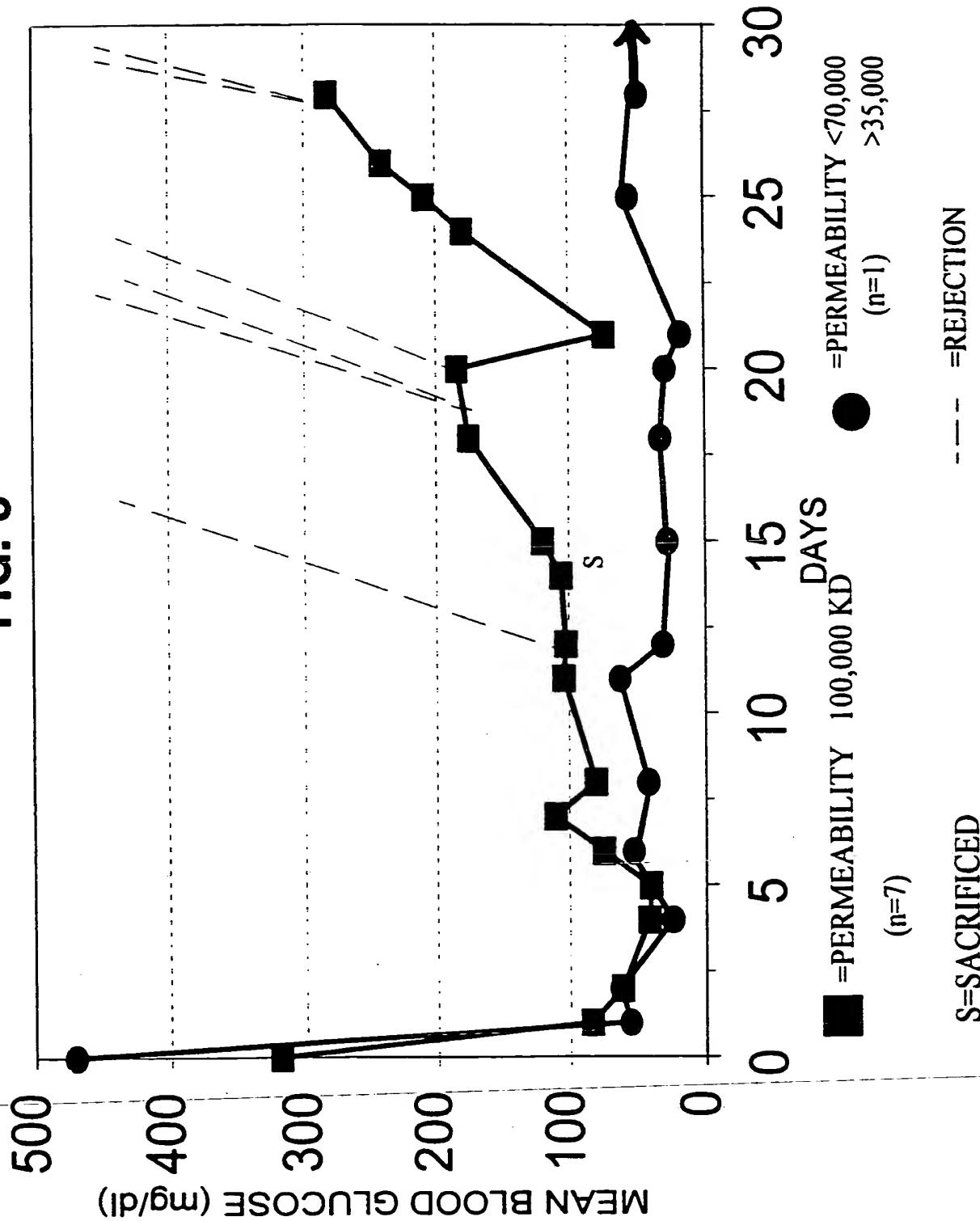
FIG. 3

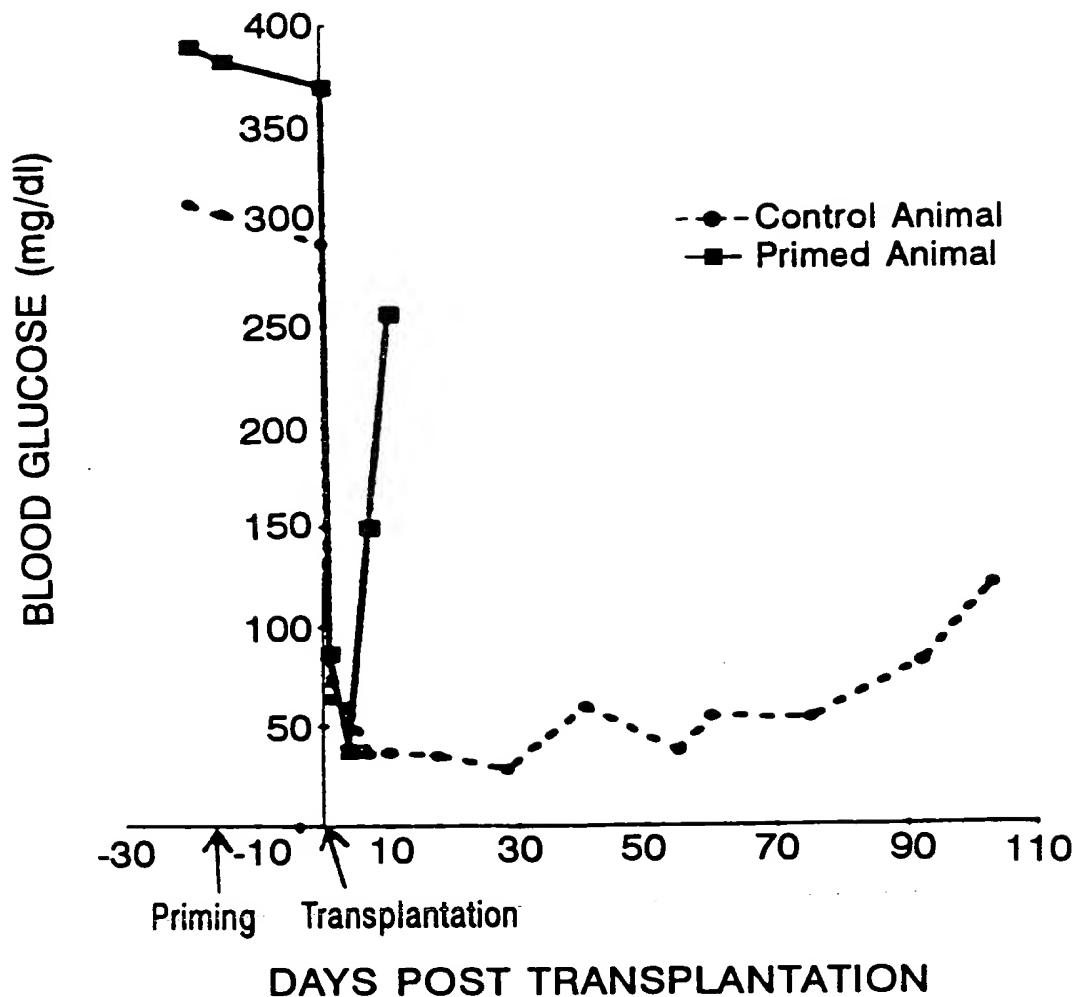
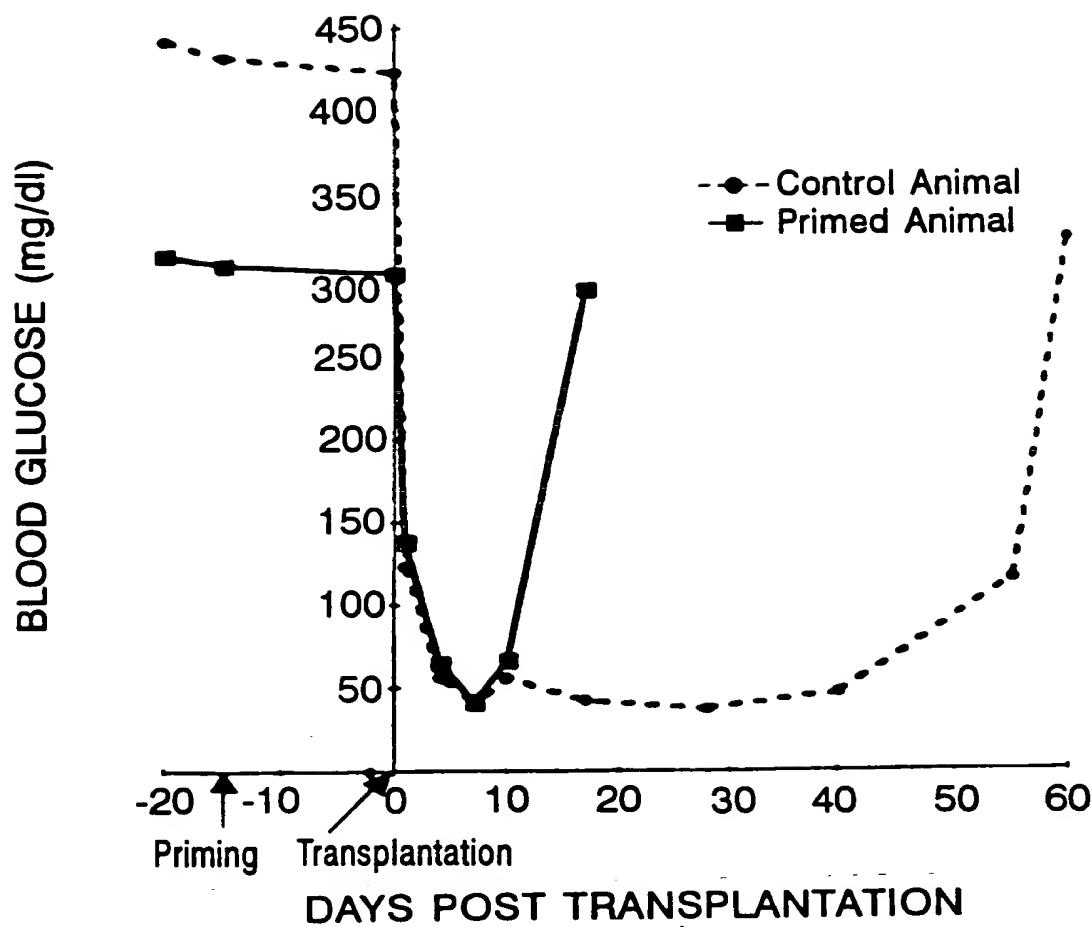
FIG. 4

FIG. 5

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FIG. 6



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FIG. 7



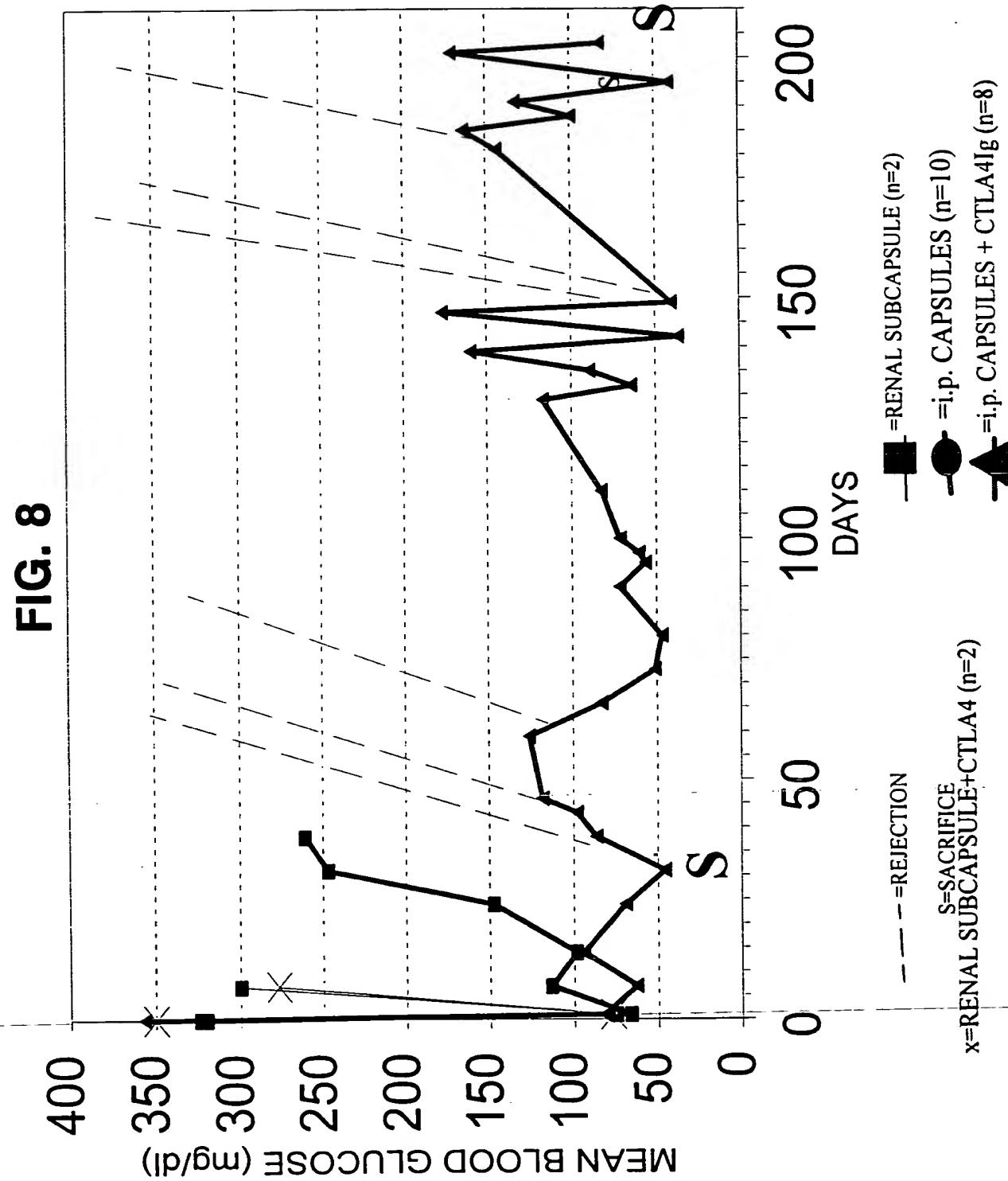
FIG. 8

FIG. 9

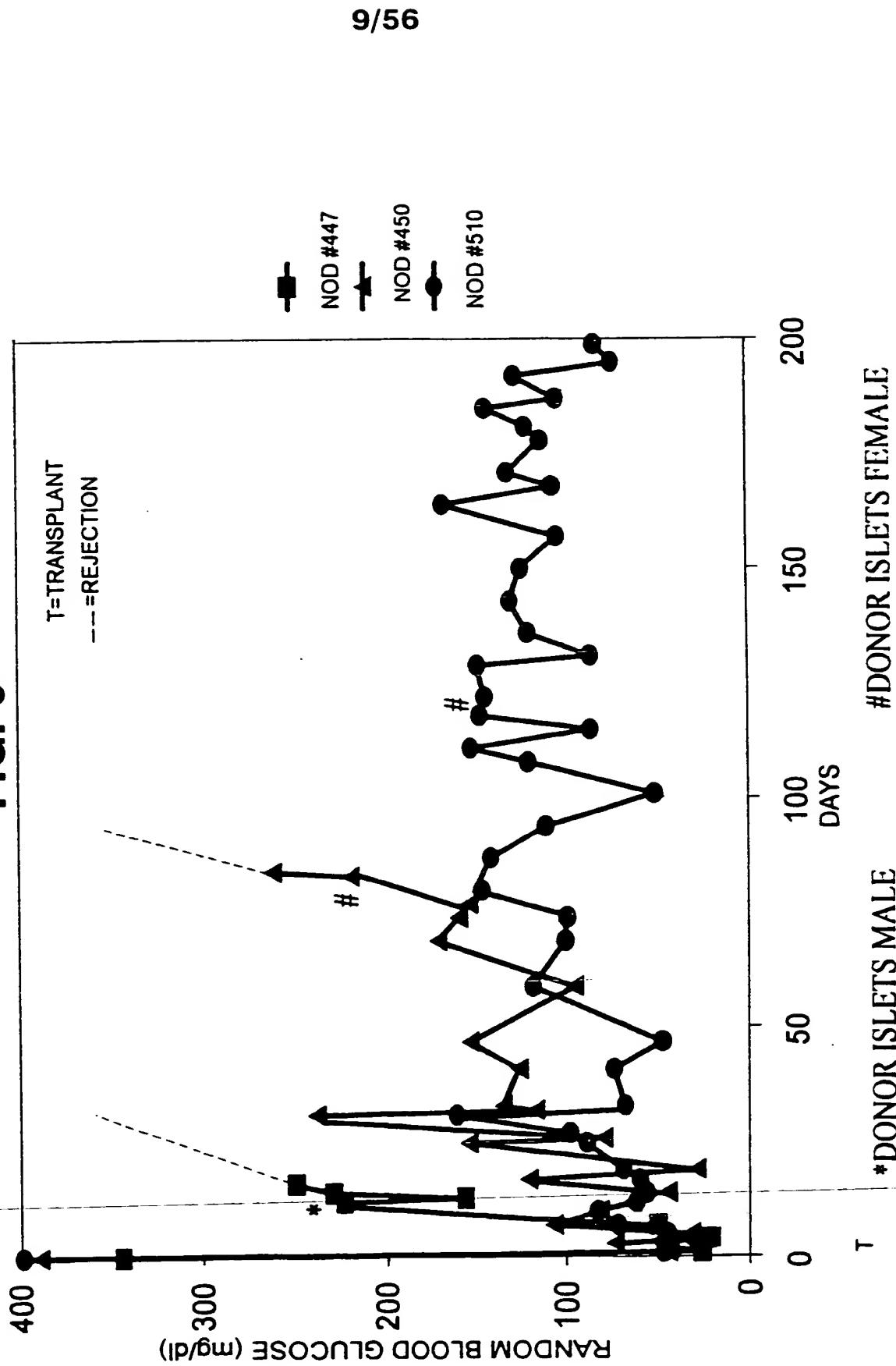


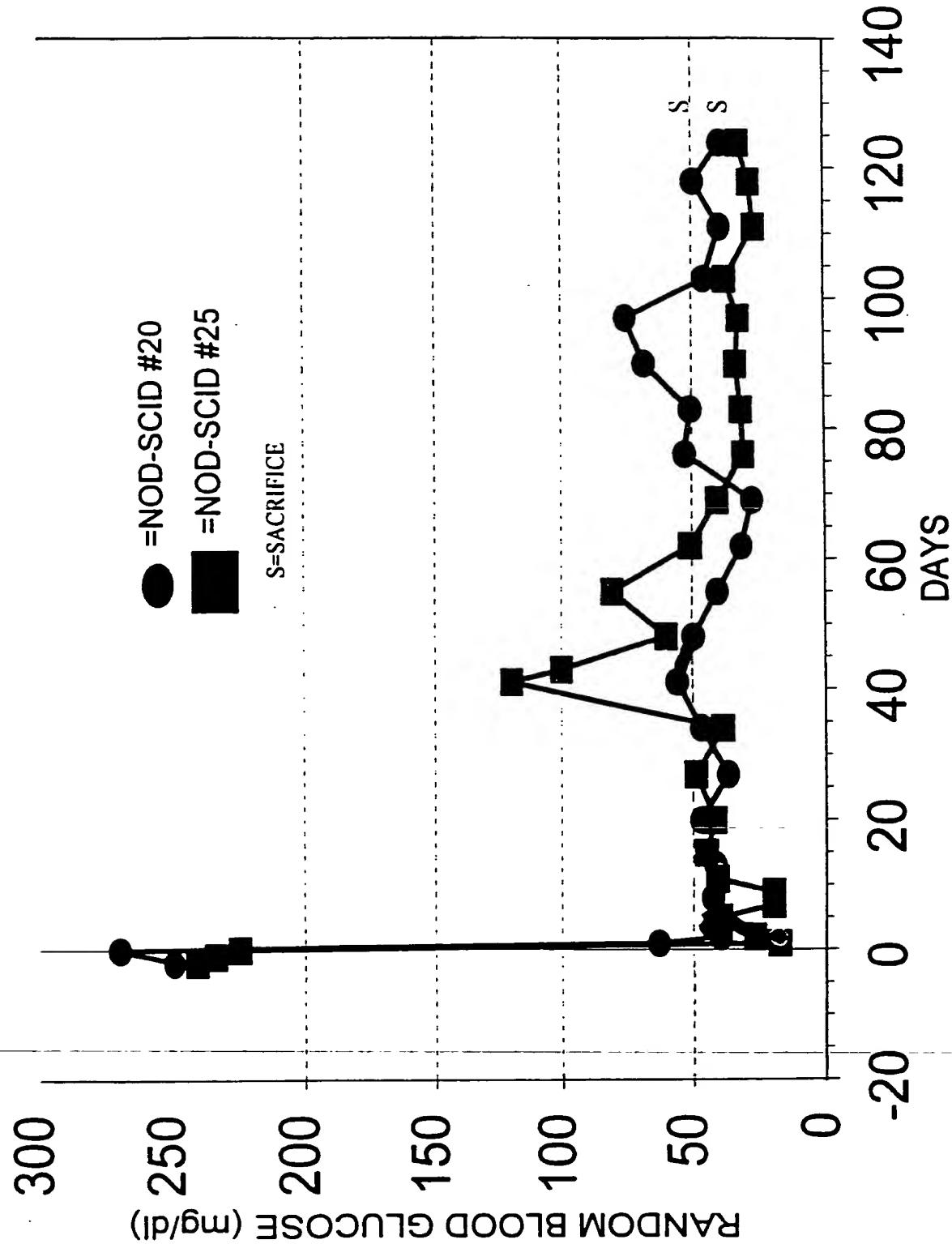
FIG. 10

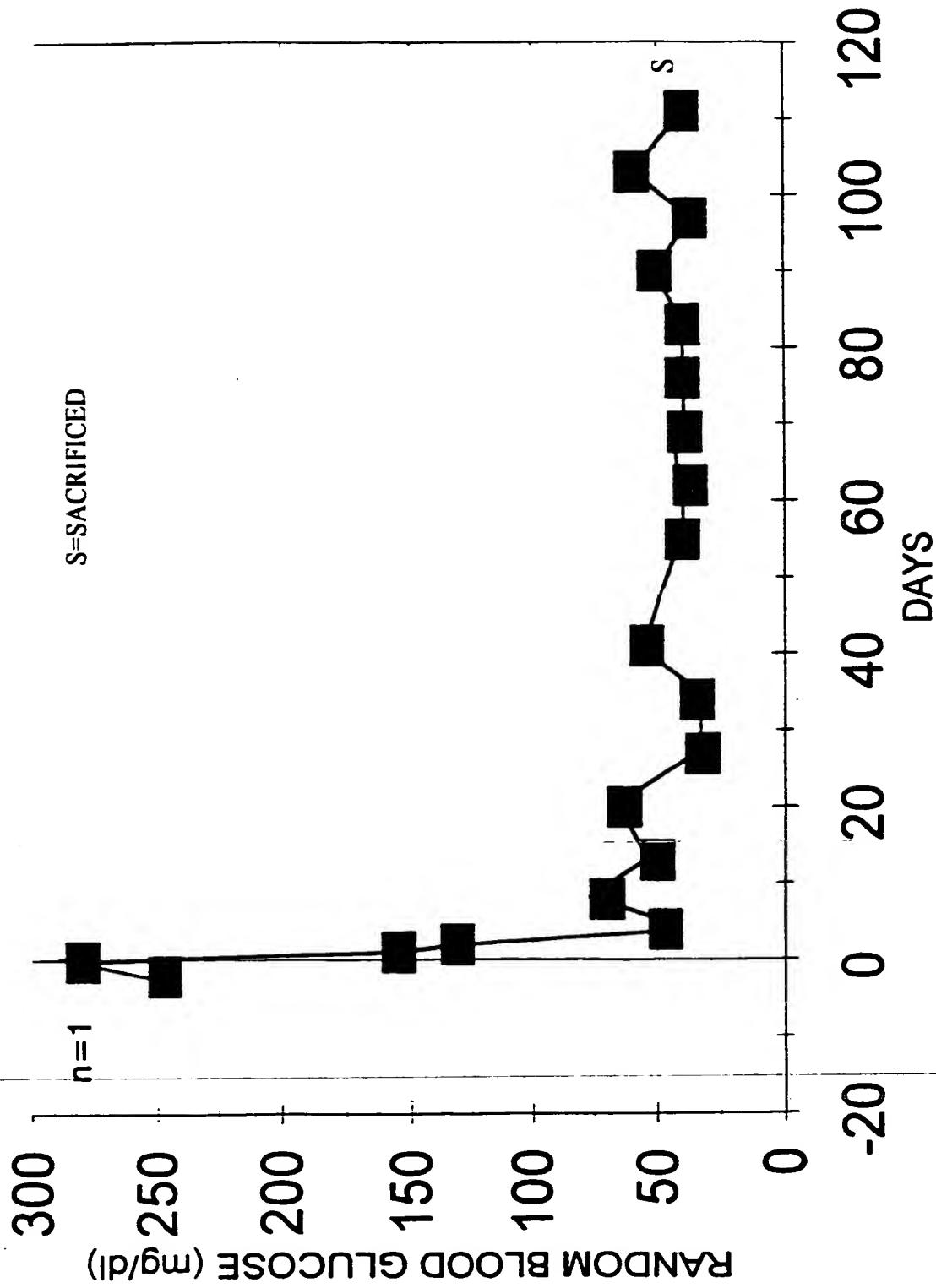
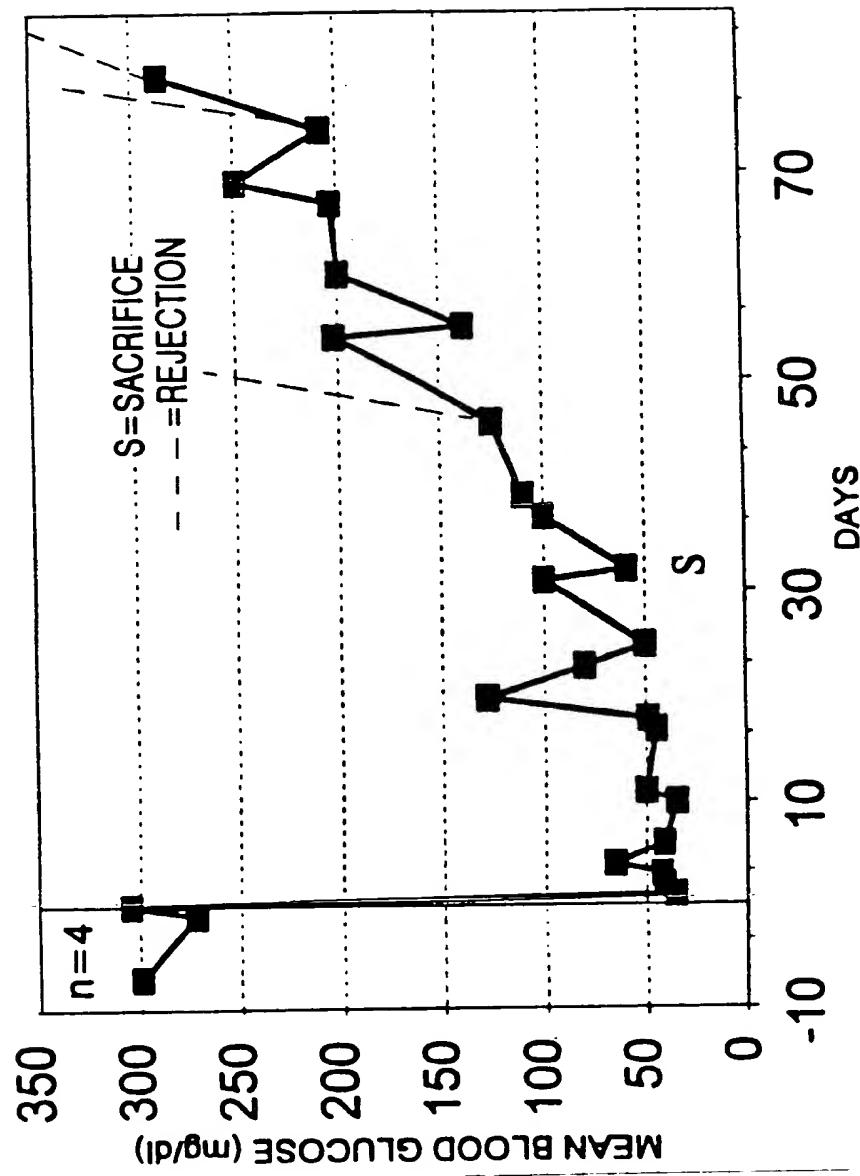
FIG. 11

FIG. 12

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FIG. 13



FIG. 14

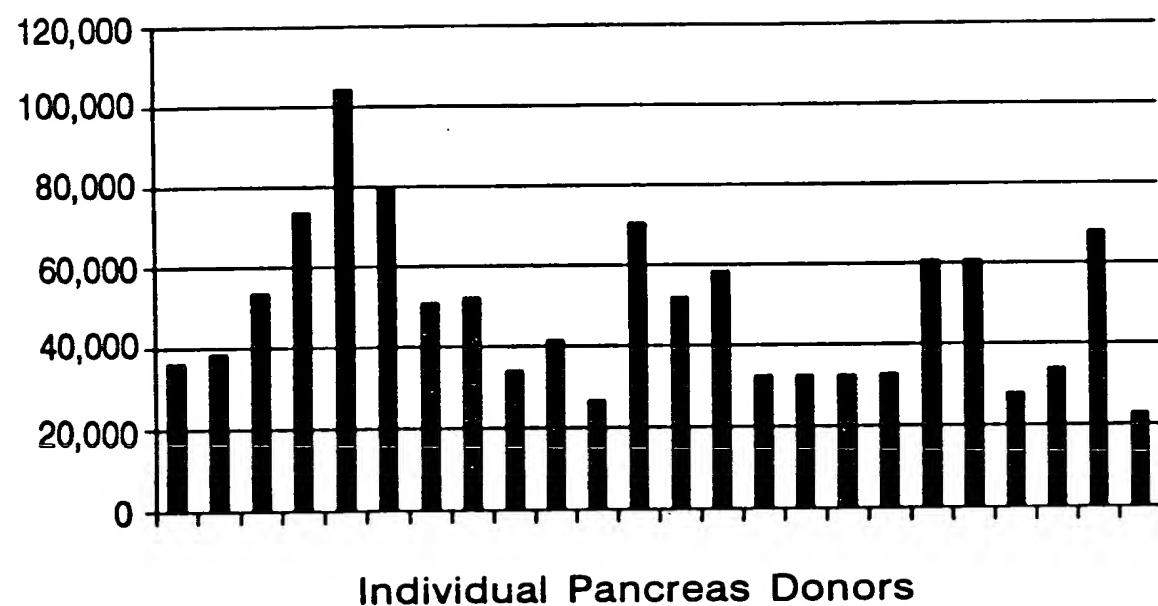
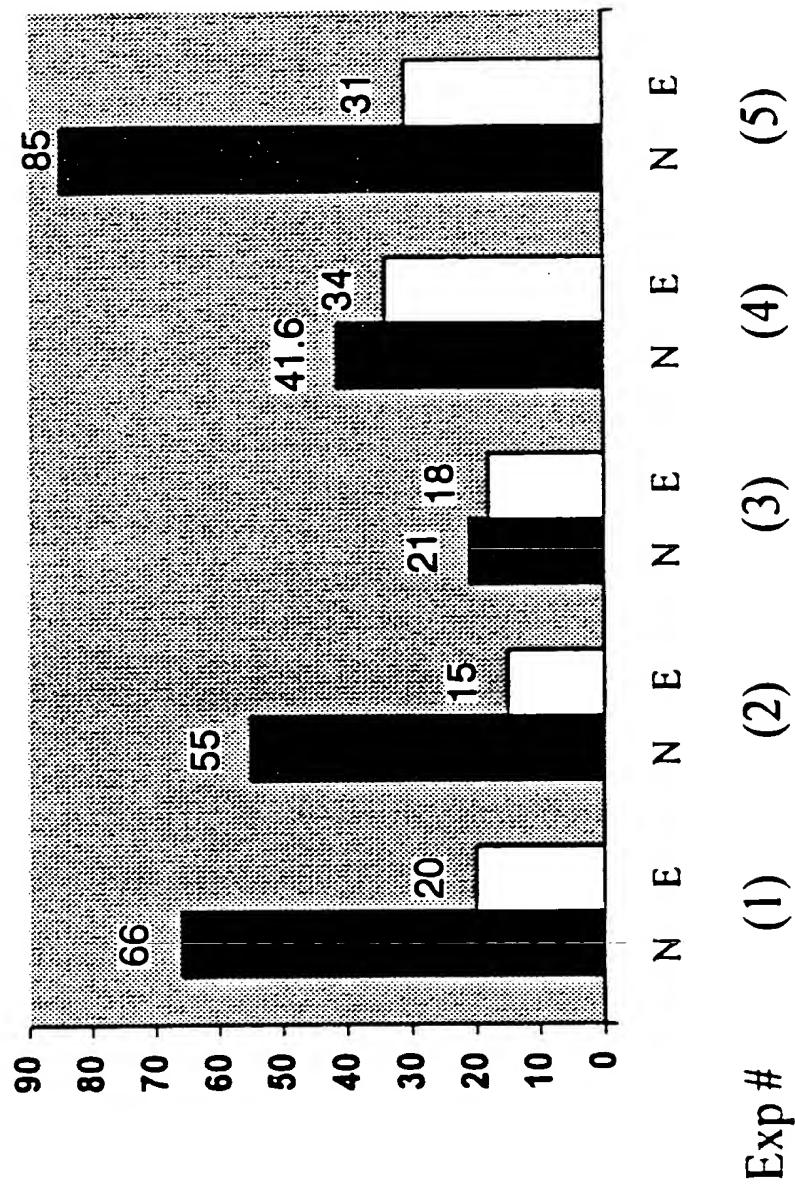
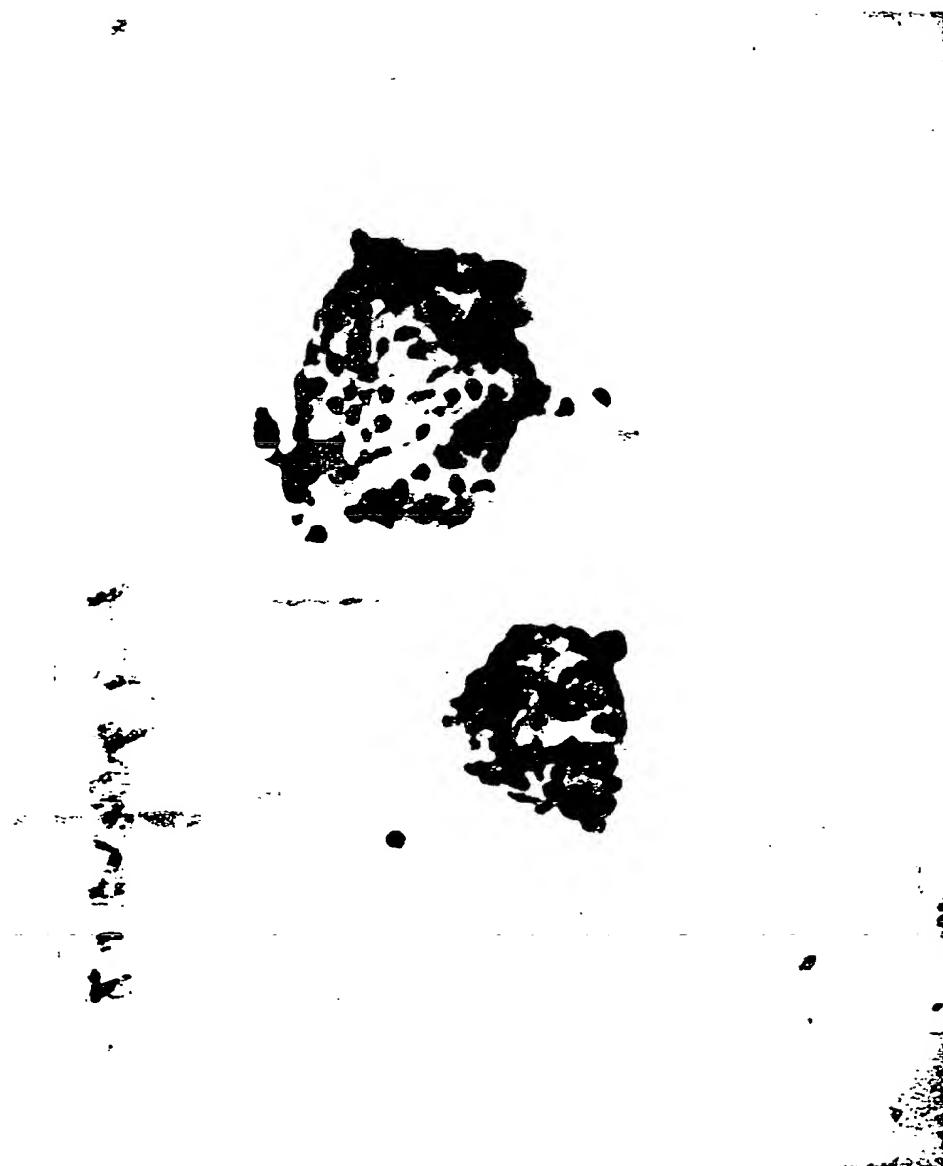


FIG. 15

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FIG. 16



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FIG. 17

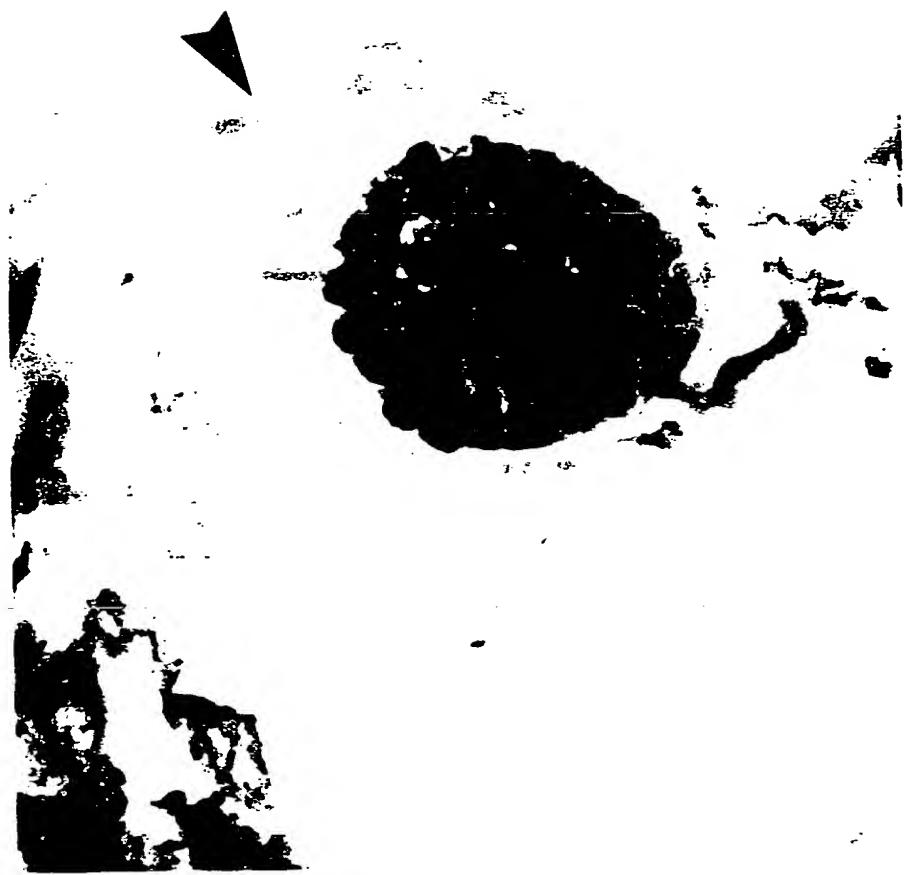


FIG. 18

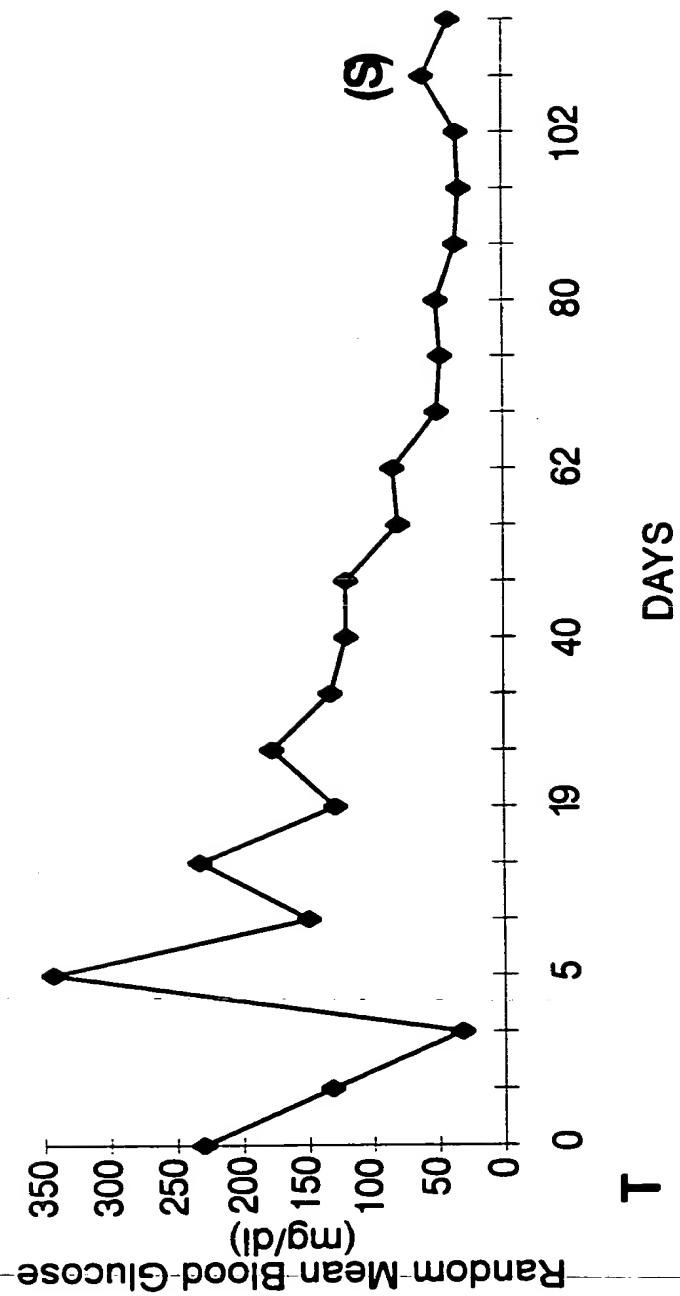
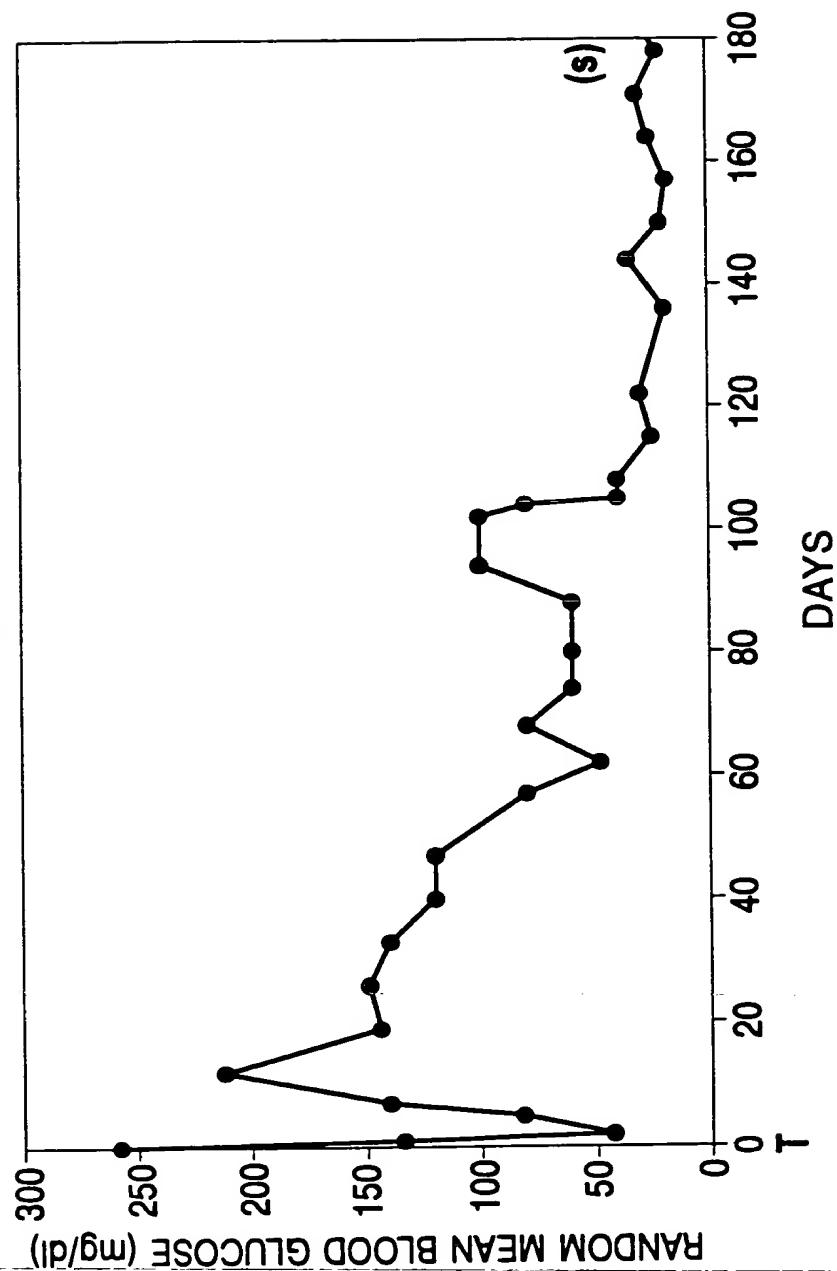


FIG. 19

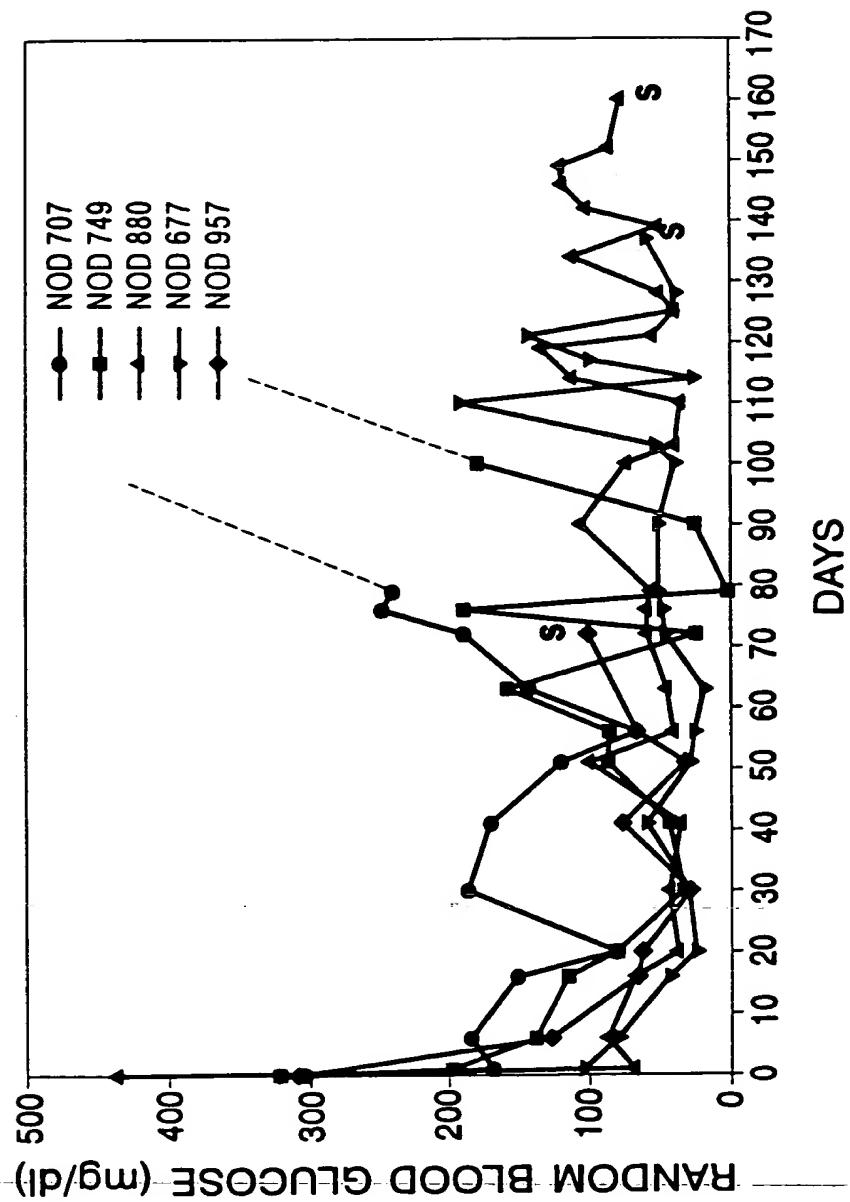


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FIG. 20



FIG. 21



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FIG. 22



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FIG. 23

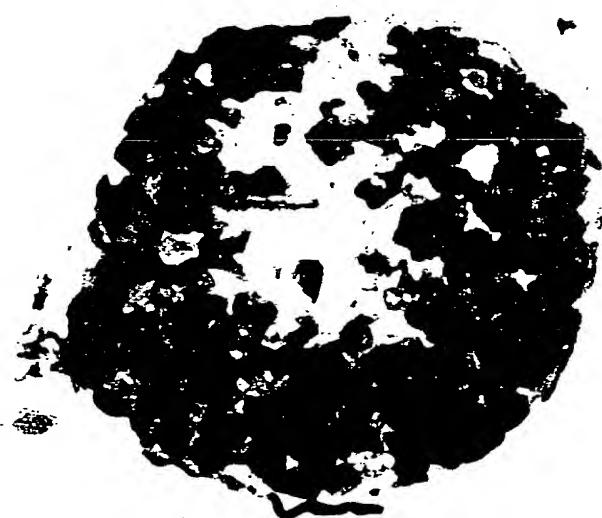


FIG. 24

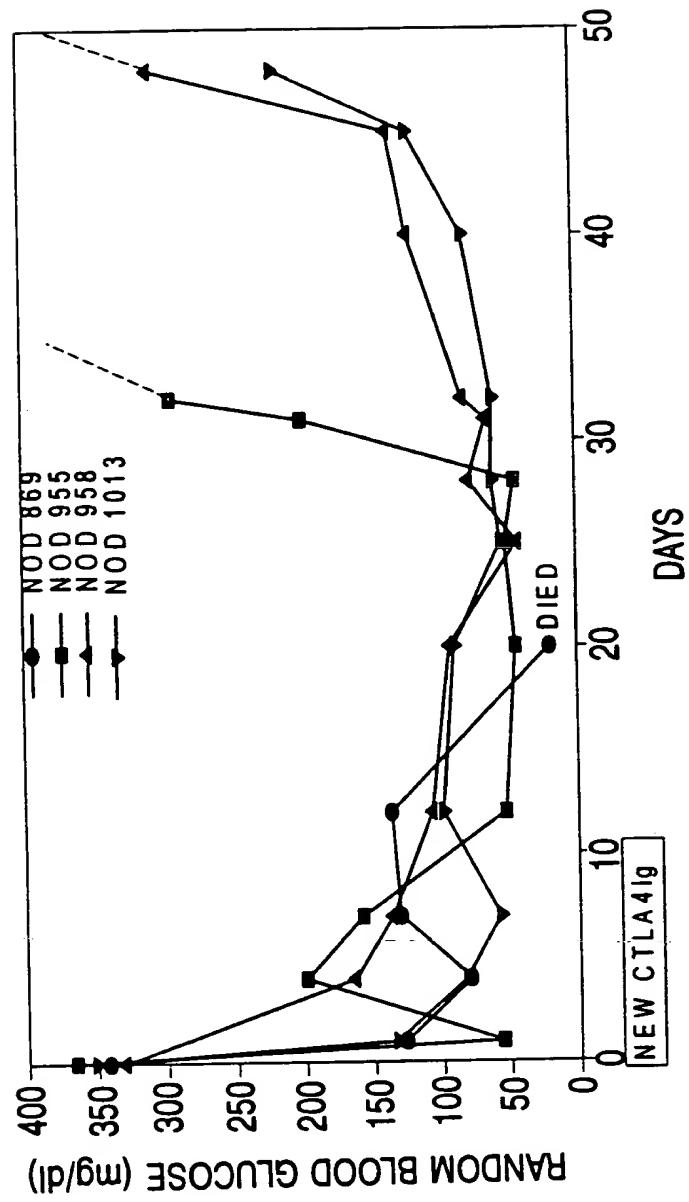


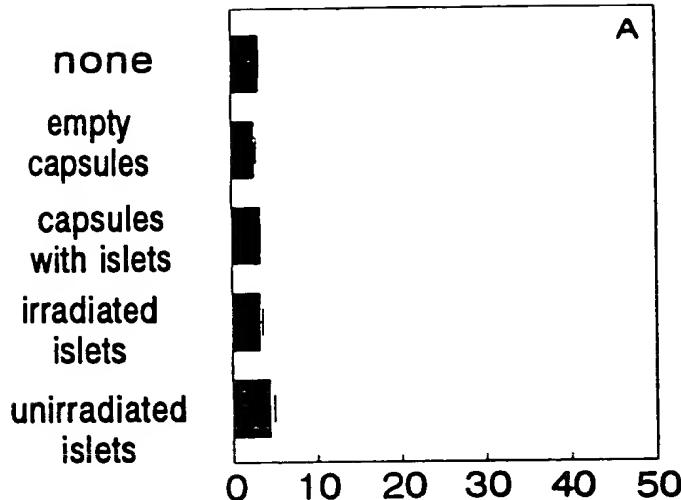
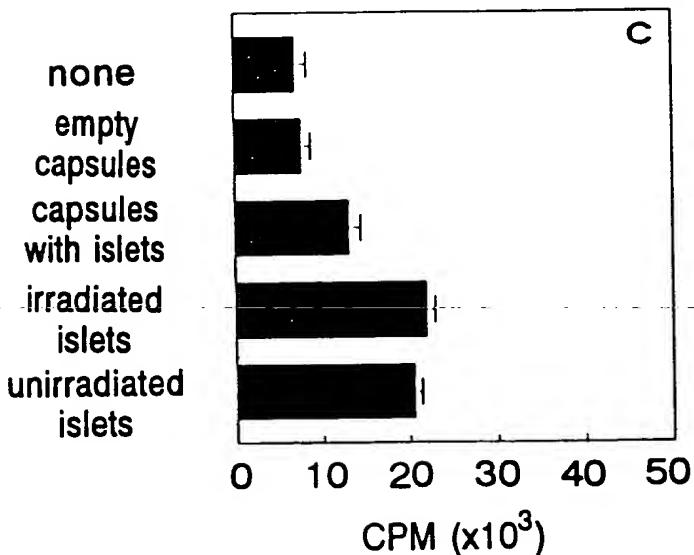
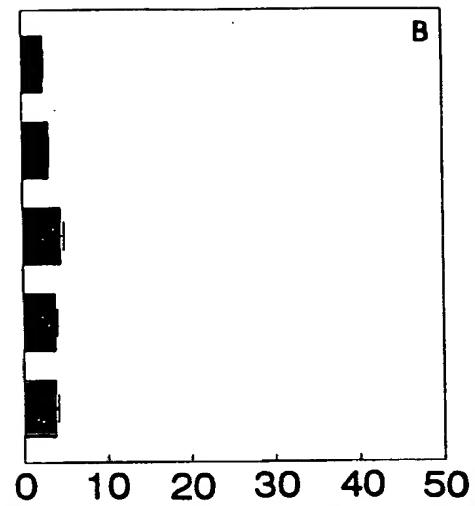
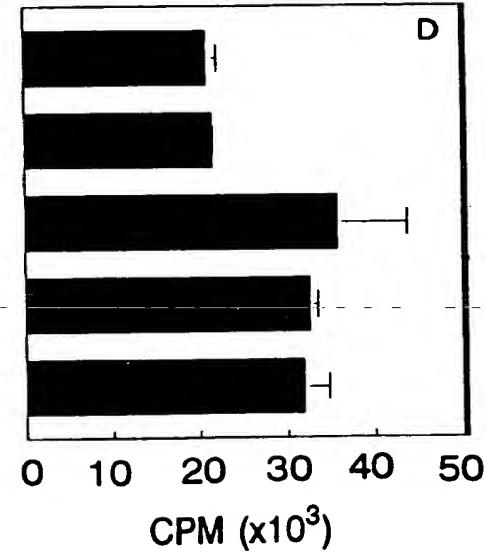
FIG. 25A**FIG. 25B****FIG. 25C****FIG. 25D**

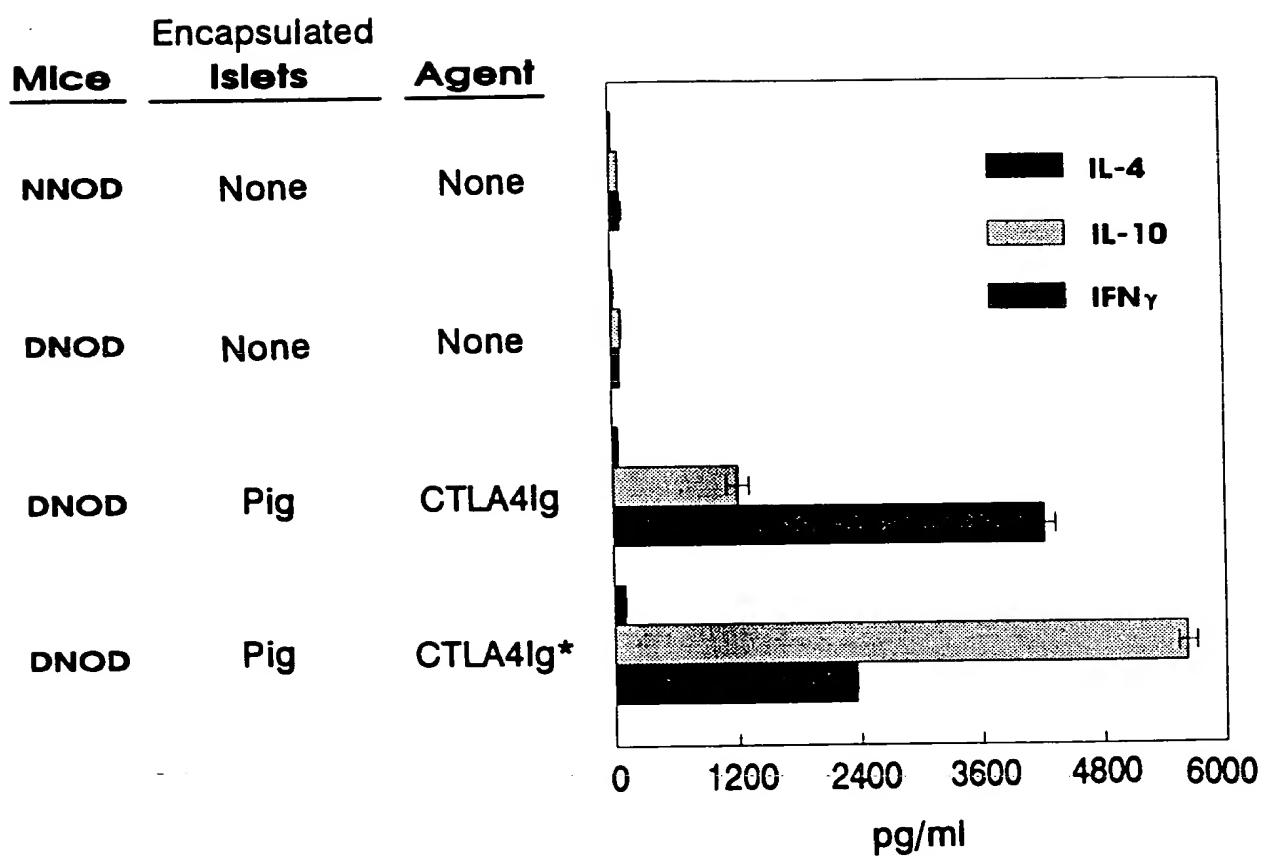
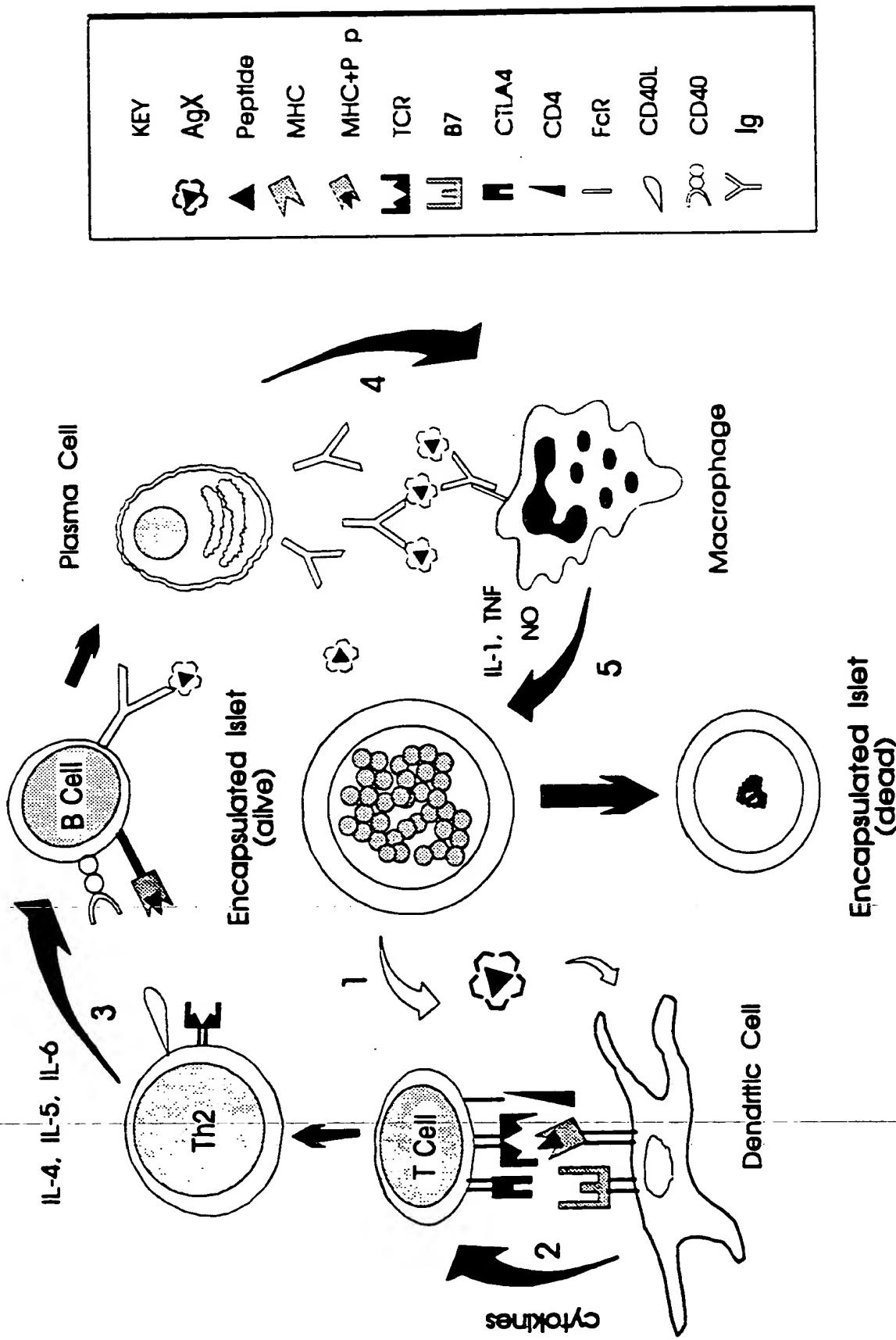
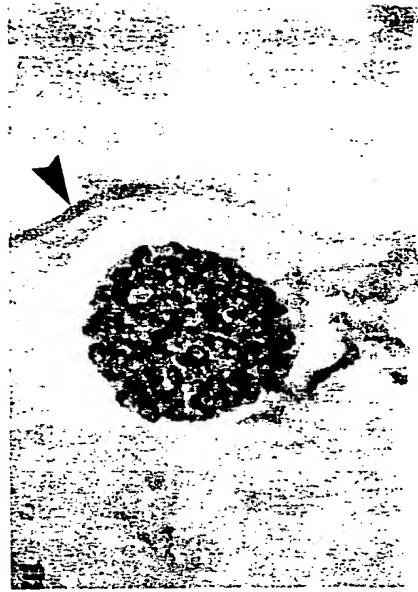
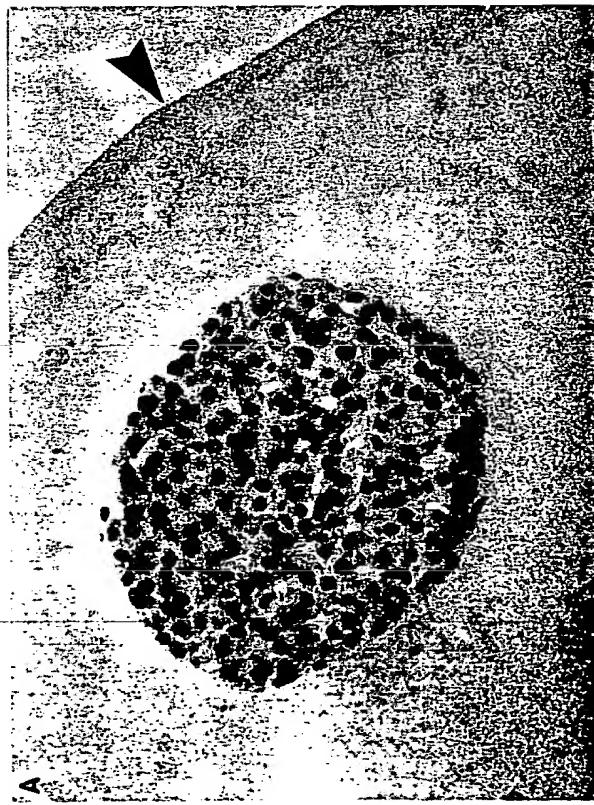
FIG. 26

FIG. 27



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FIG. 28A
FIG. 28B



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FIG. 29B

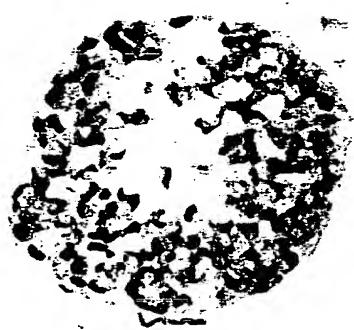


FIG. 29A

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FIG. 30

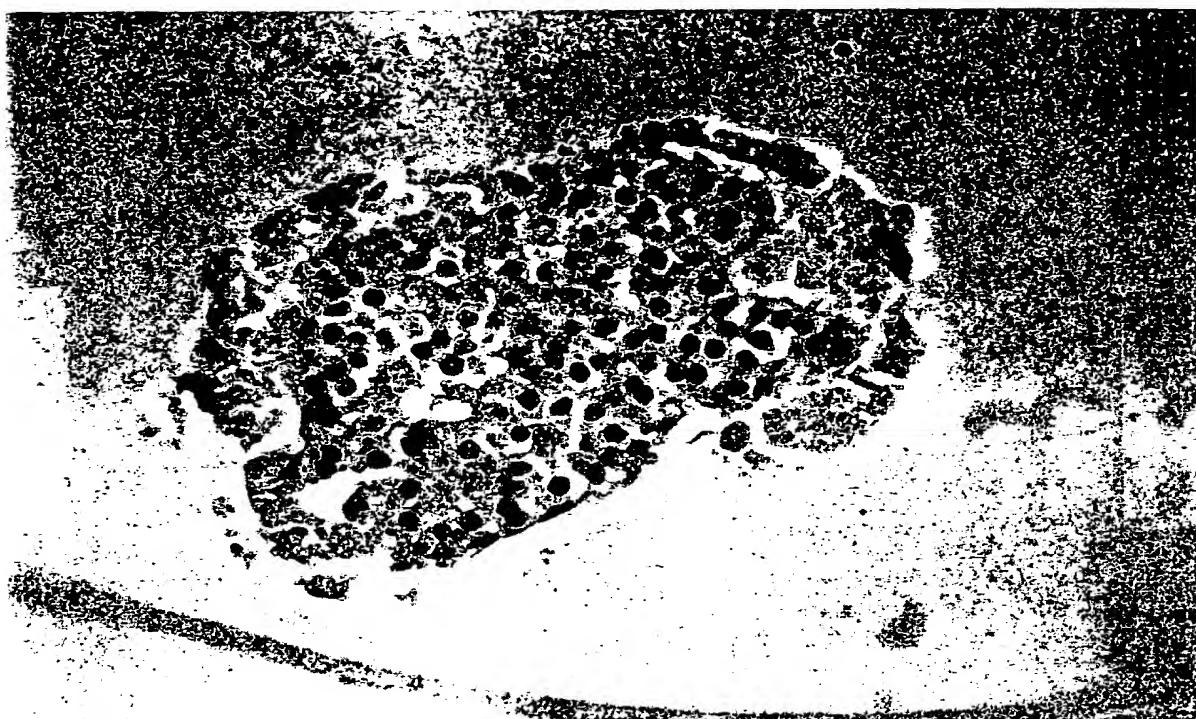


FIG. 31



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FIG. 32

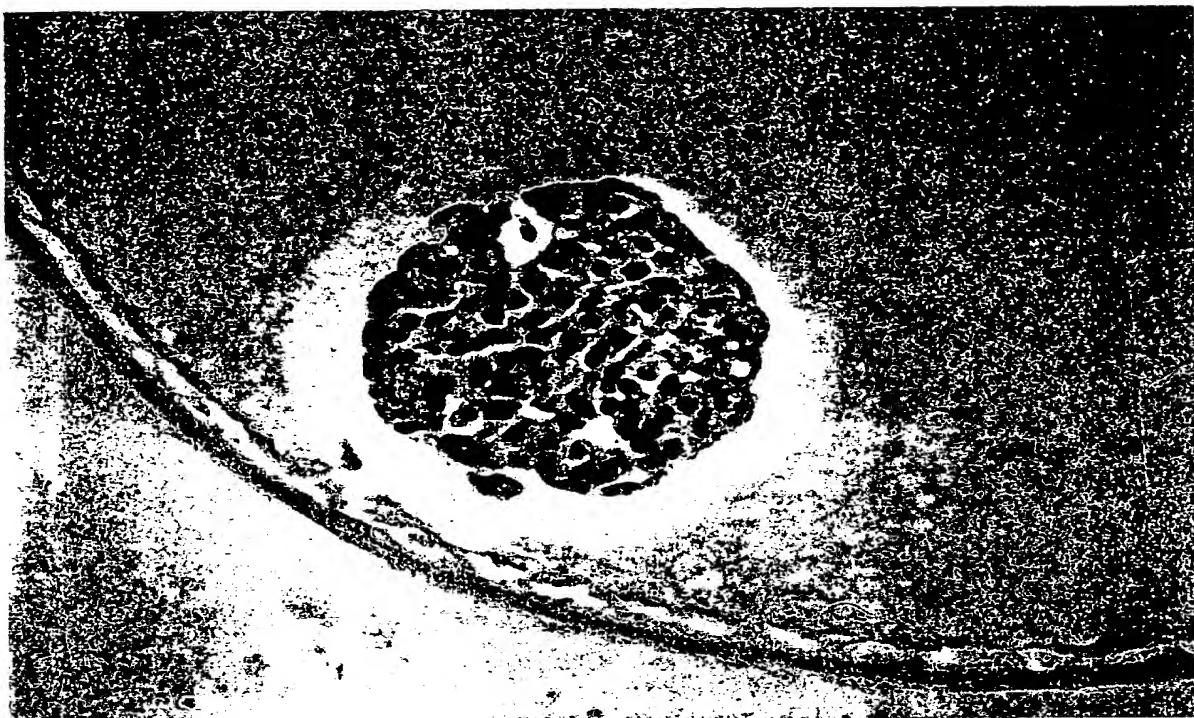


FIG. 33



FIG. 34 Microencapsulated Neonatal Pig Islet Transplants Into Diabetic NOD Mice Treated with CTLA4-Ig for 21 Days

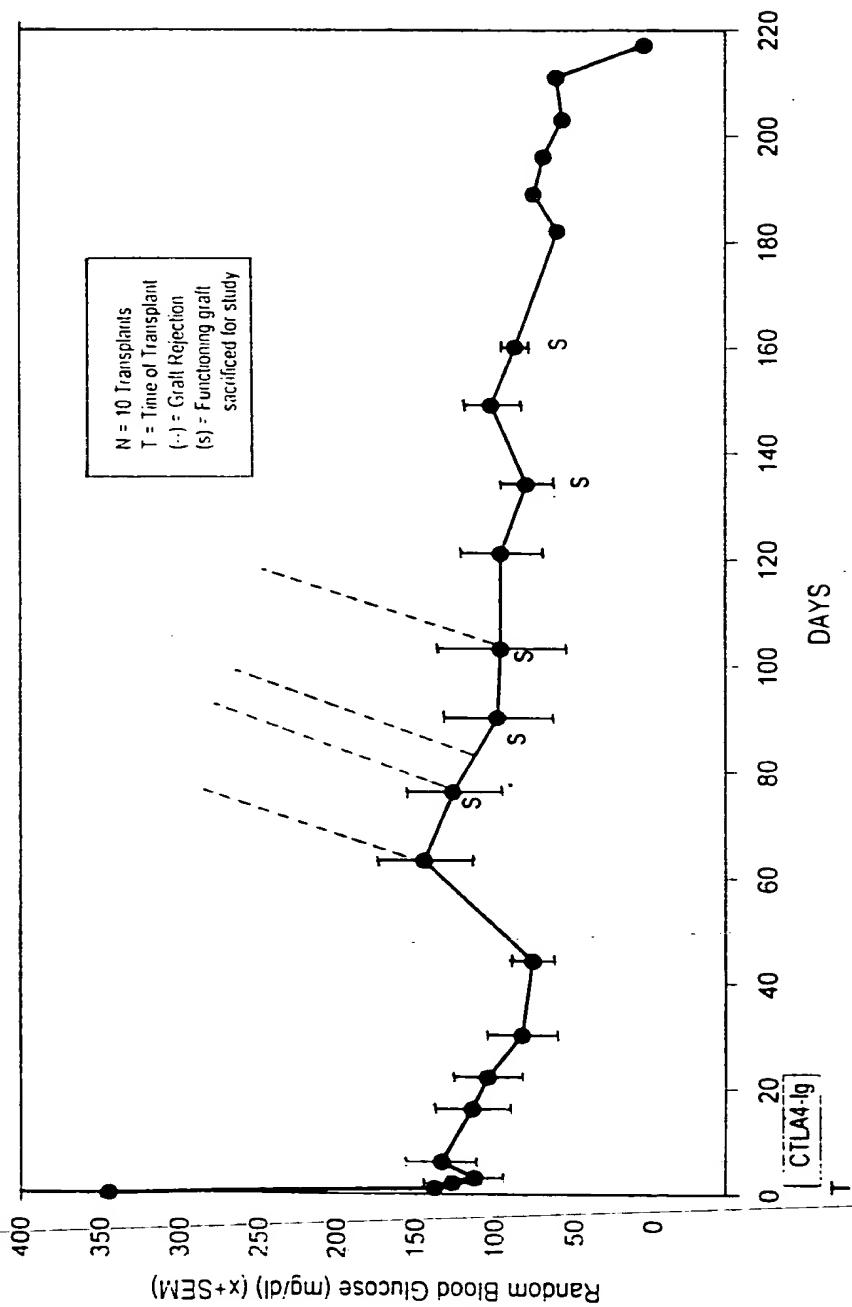


FIG. 35 Microencapsulated Neonatal Pig Islet Transplants into Diabetic NOD Mice Treated with mutant CTLA4-Ig for 21 Days

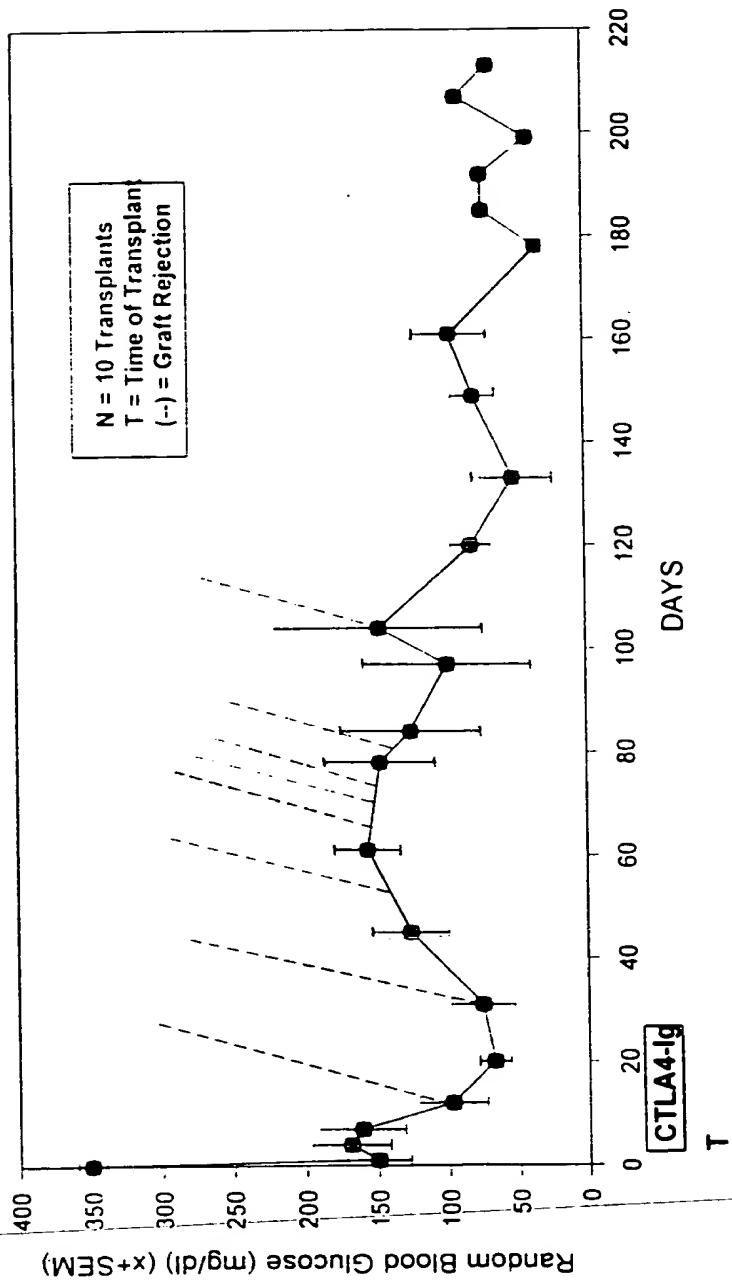


FIG. 36

**Neonatal Porcine Islet Xenografts in NOD Mice: Effects of
CTLA-4Ig and Microencapsulation**

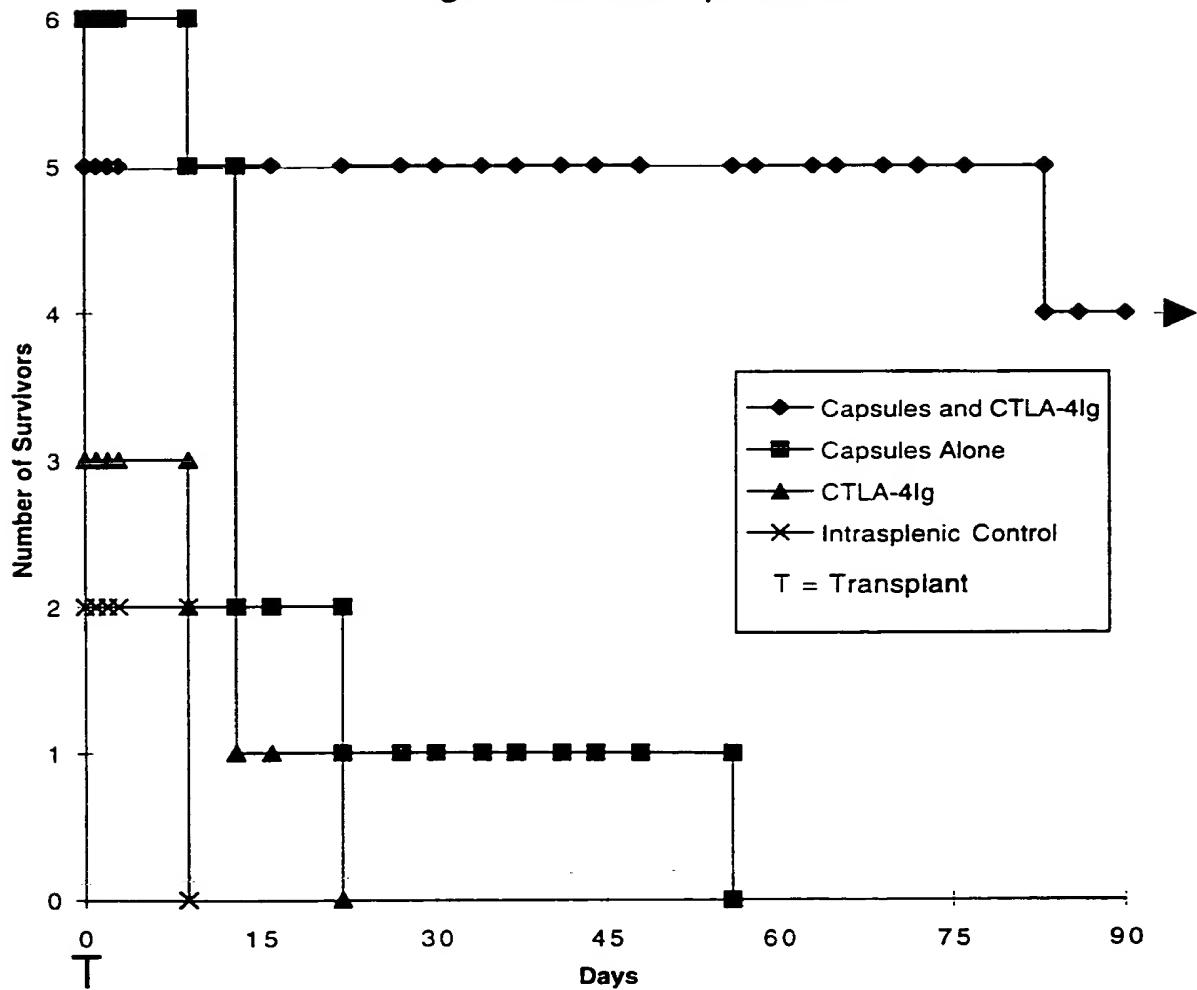


FIG. 37

Islet-specific proliferation by SPC from
NODs with rejected or functioning grafts

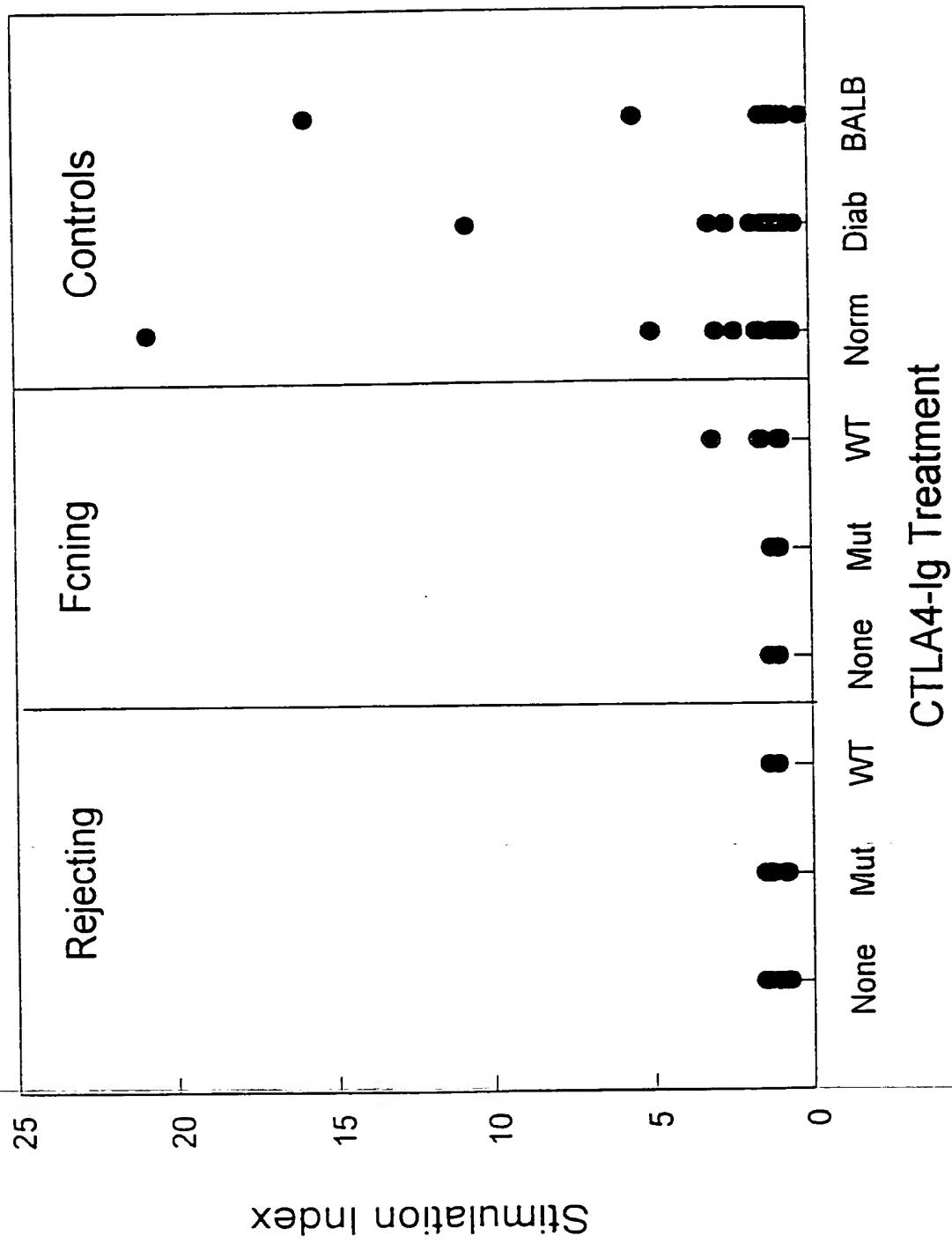


FIG. 38

Spontaneous Proliferation by SPC from
NODs with rejected or functioning grafts

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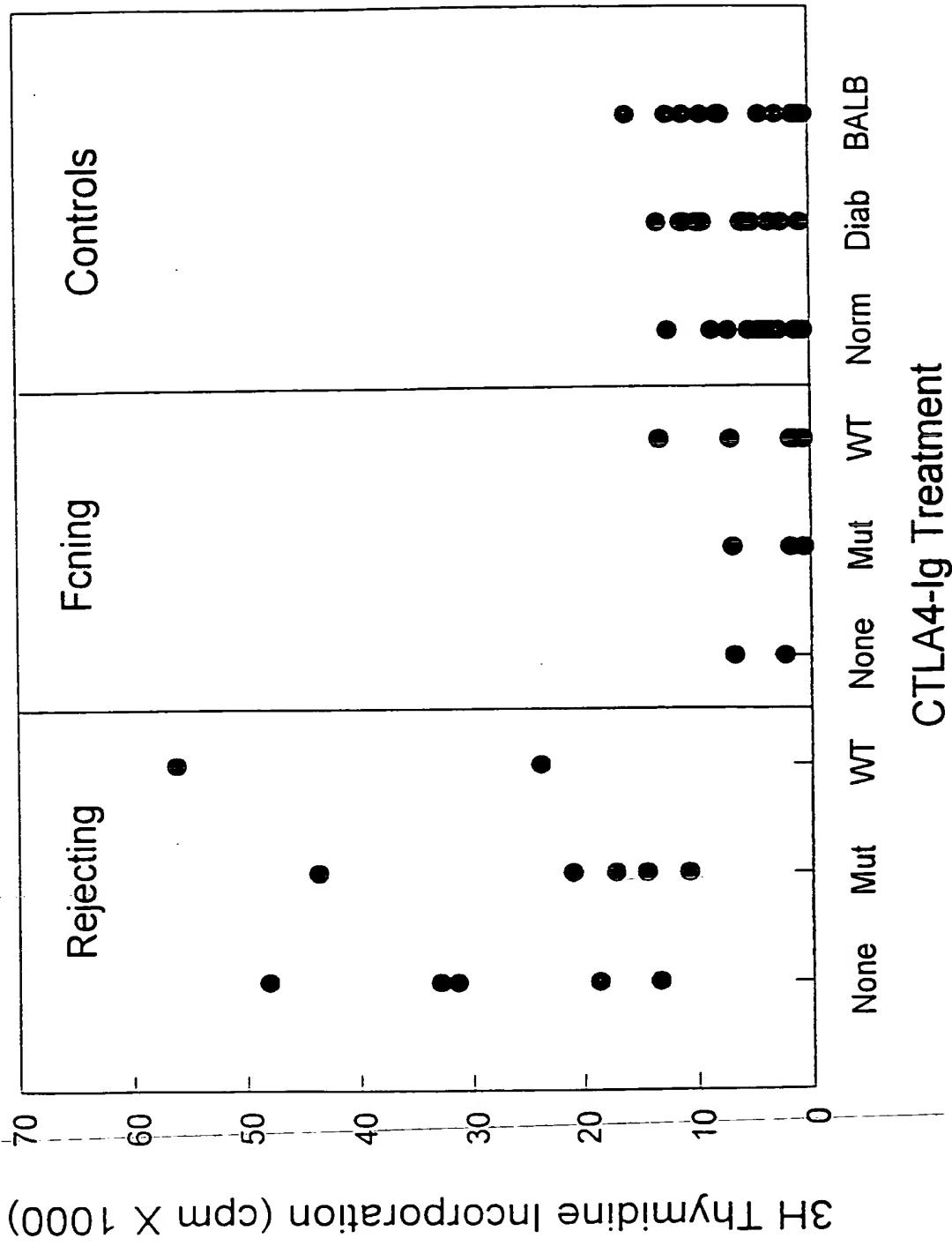


FIG. 39A IL-2 present in peritoneal fluid on sac day
Transplanted NODs

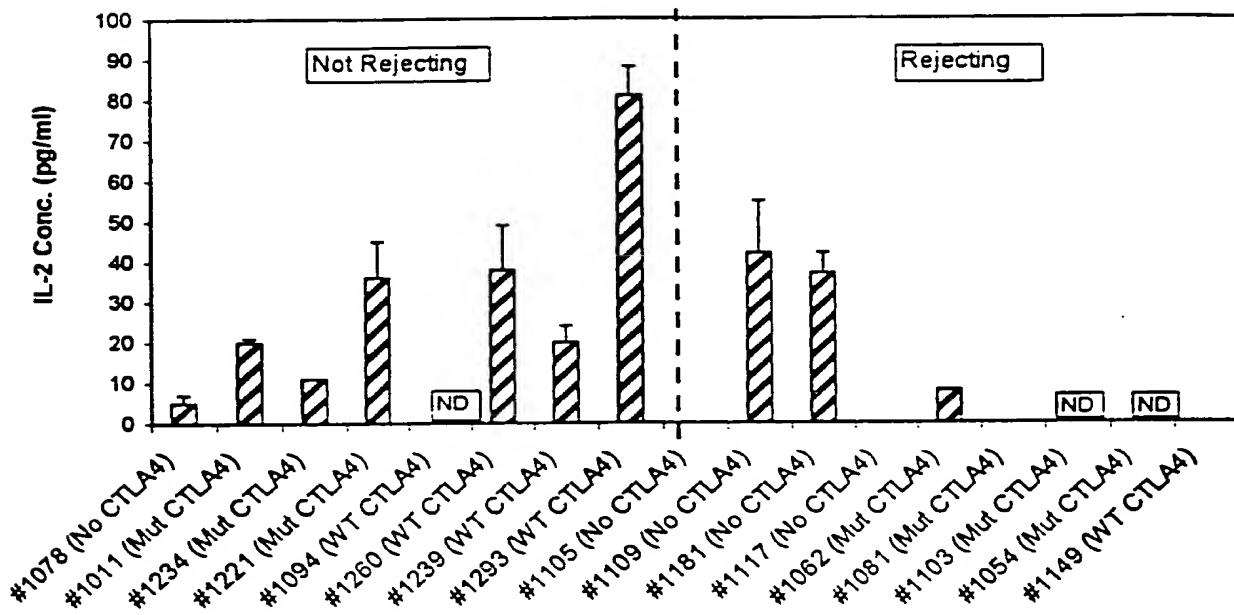


FIG. 39B IL-2 present in peritoneal fluid on sac day
Untransplanted mice

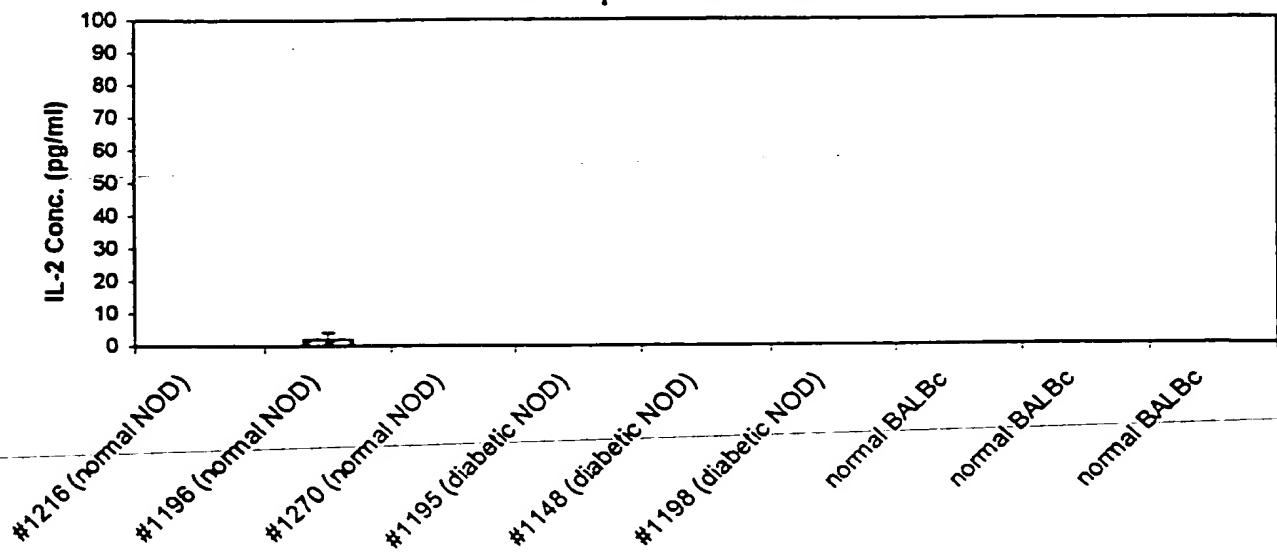


FIG. 40A IL-2 secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

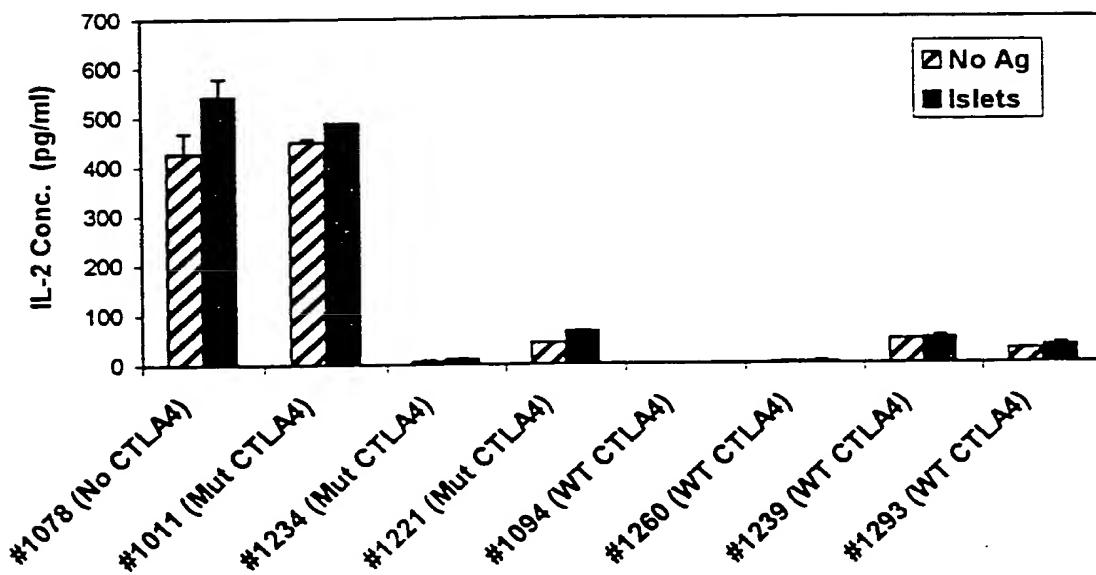


FIG. 40B IL-2 secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting

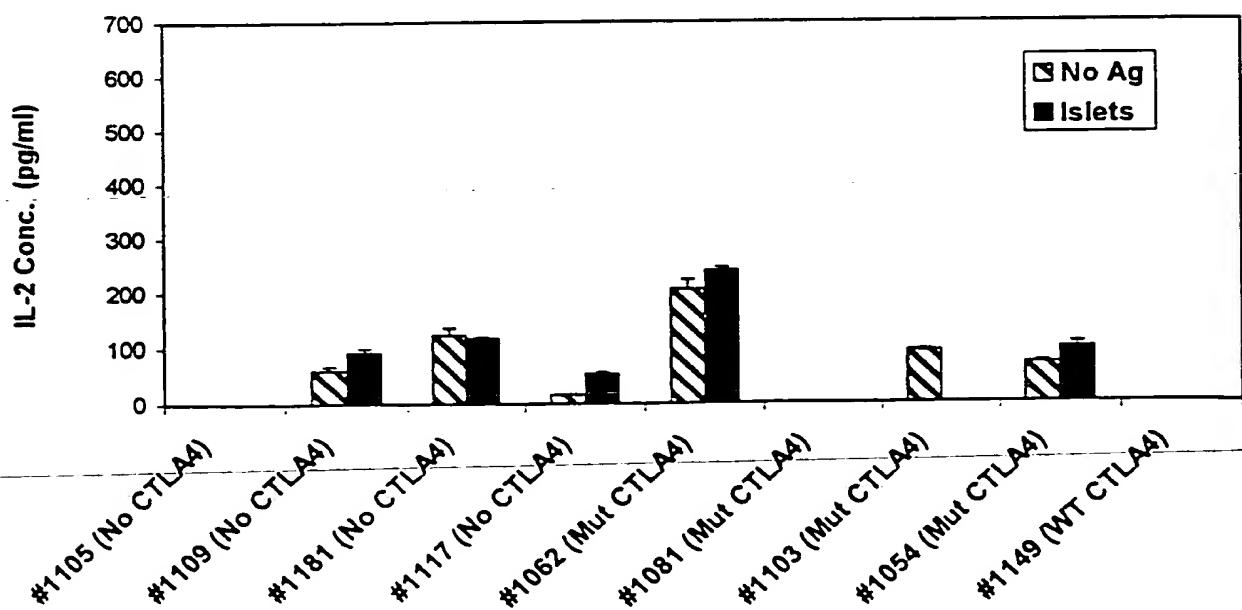


FIG. 41A IFN-gamma present in peritoneal fluid on sac day
Transplanted NODs

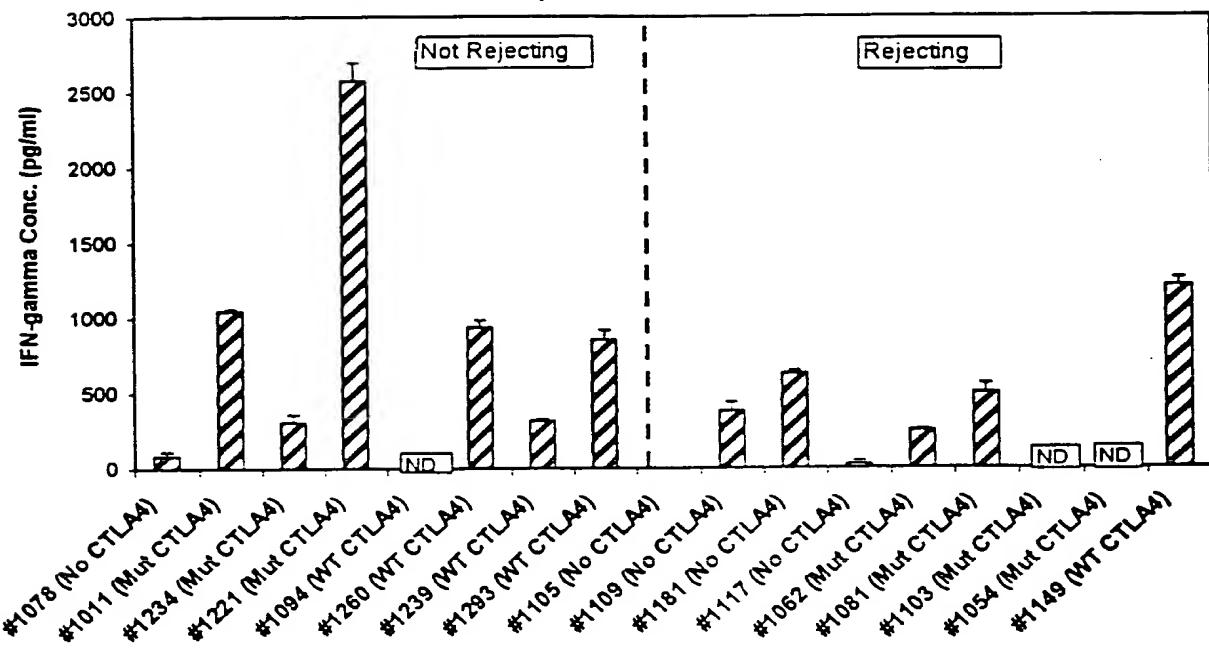


FIG. 41B IFN-gamma present in peritoneal fluid on sac day
Untransplanted mice

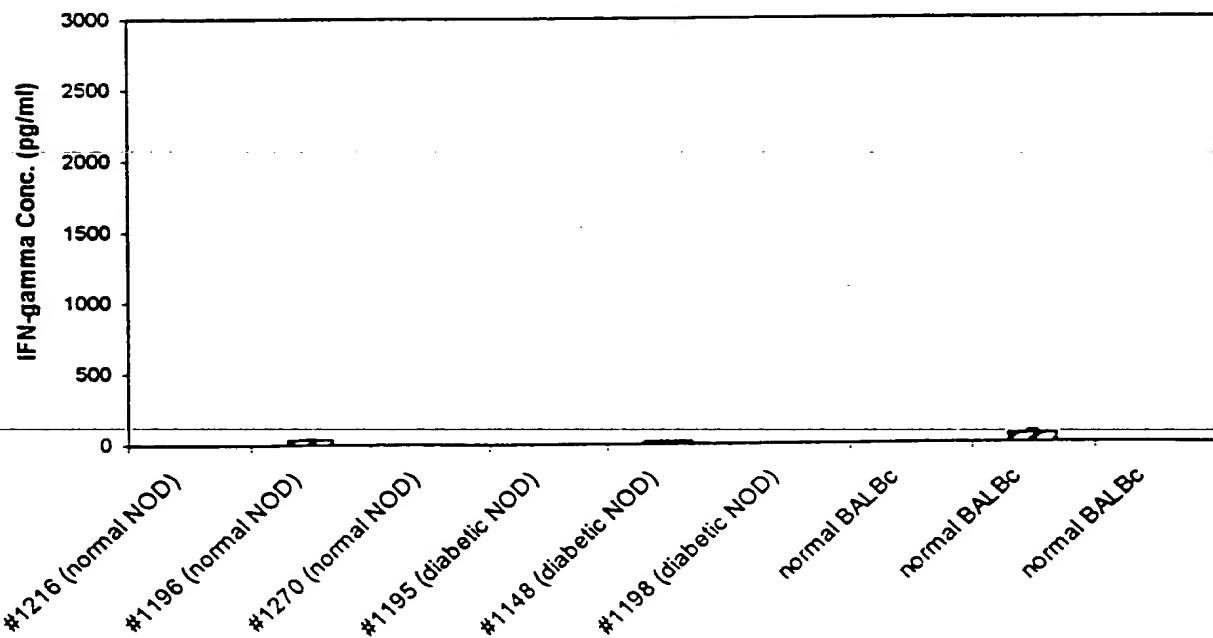


FIG. 42A IFN gamma secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

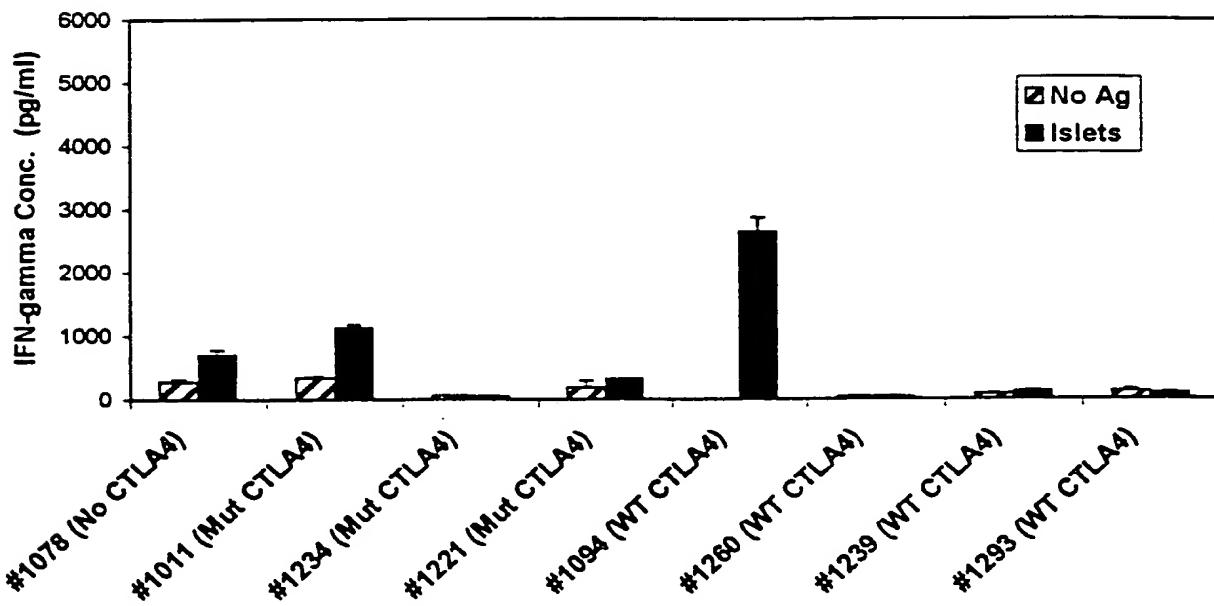


FIG. 42B IFN-gamma secretion by SPC cultured with porcine islets
Transplanted NODs - Rejecting

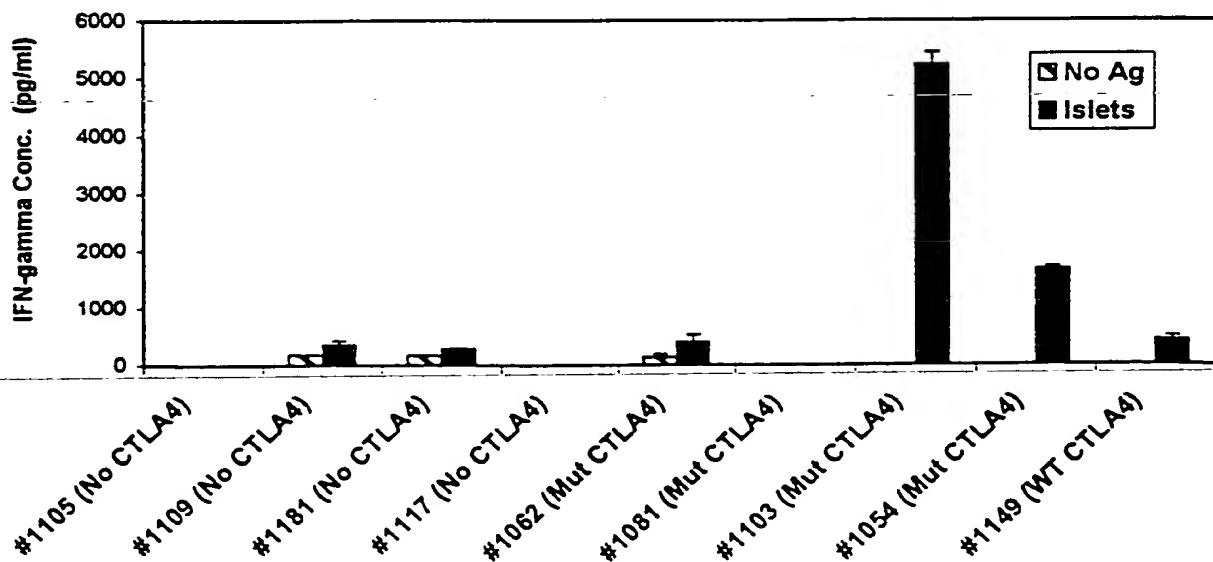


FIG. 43A IL-4 present in peritoneal fluid on sac day
Transplanted NODs

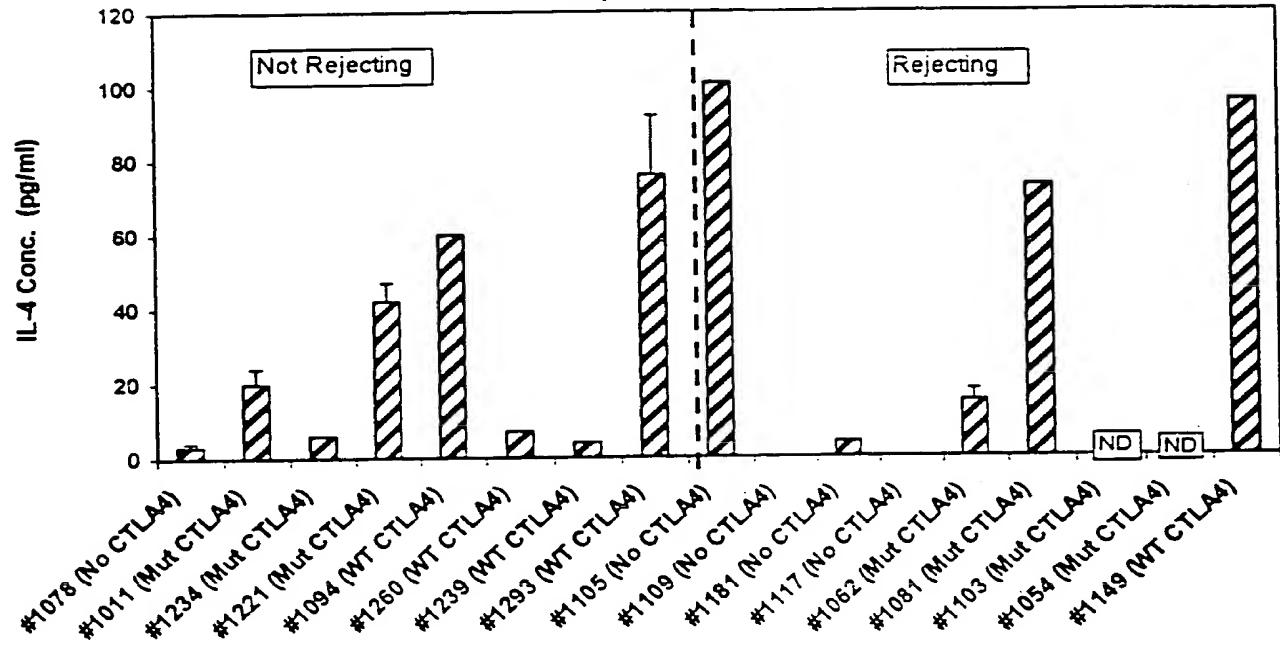


FIG. 43B IL-4 present in peritoneal fluid on sac day
Untransplanted mice

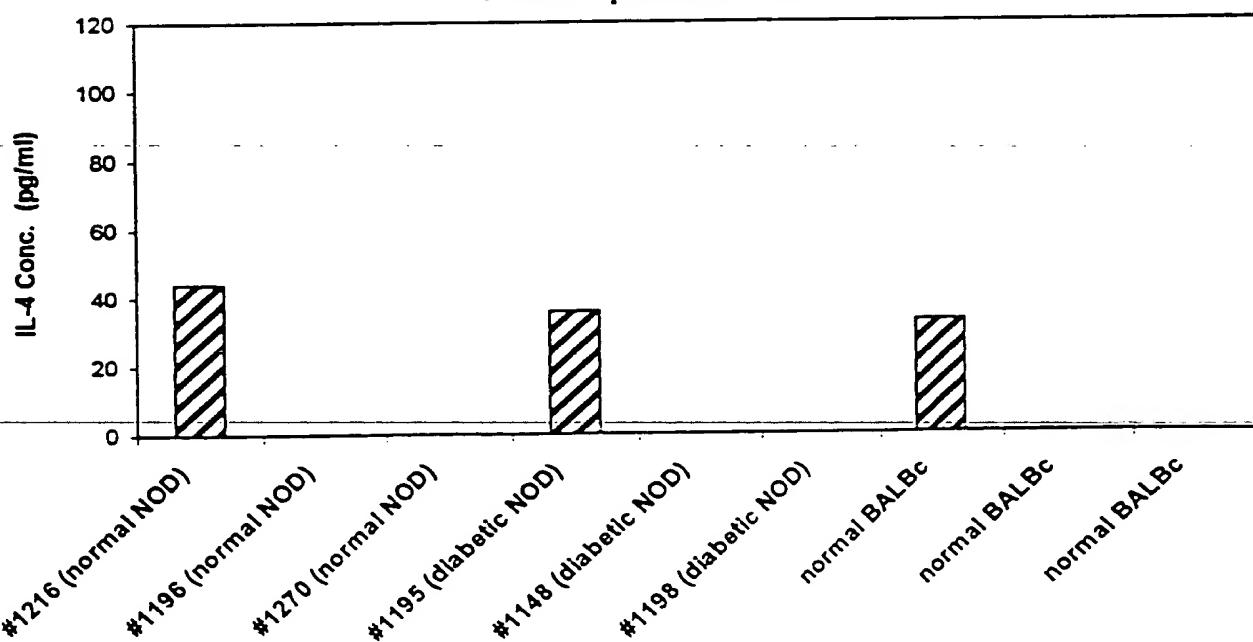


FIG. 44A IL-4 secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

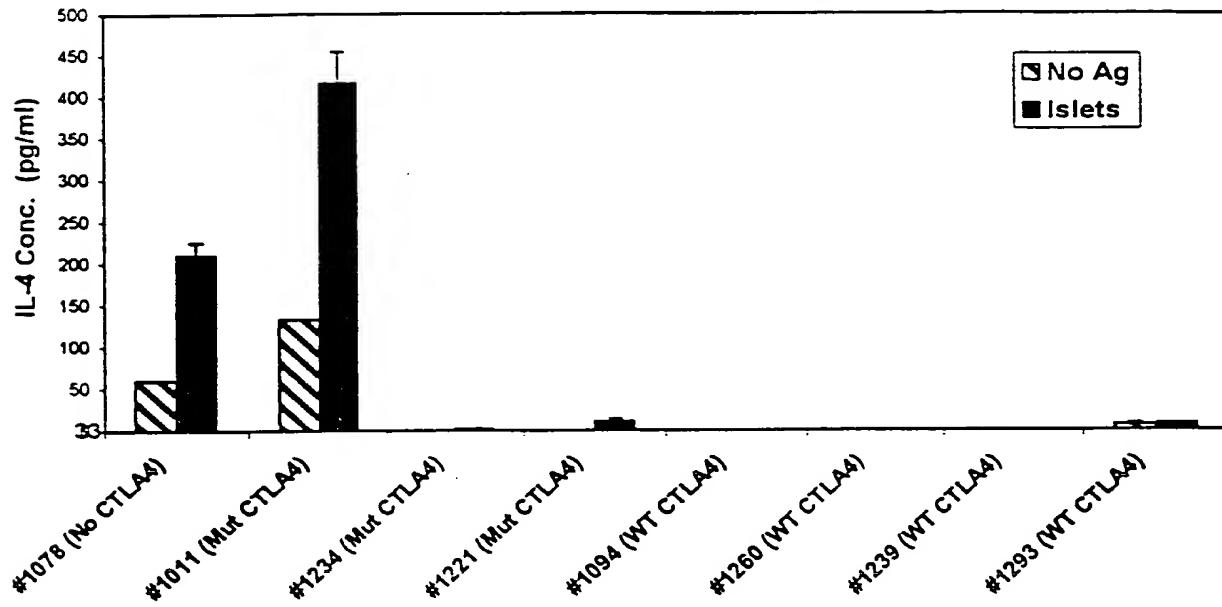
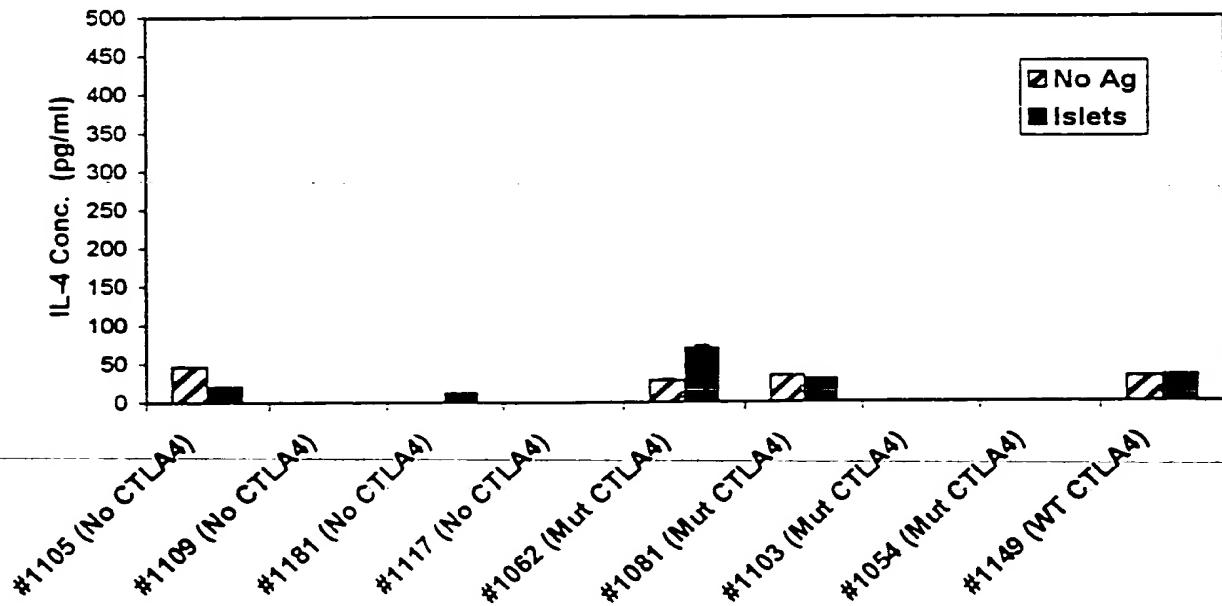
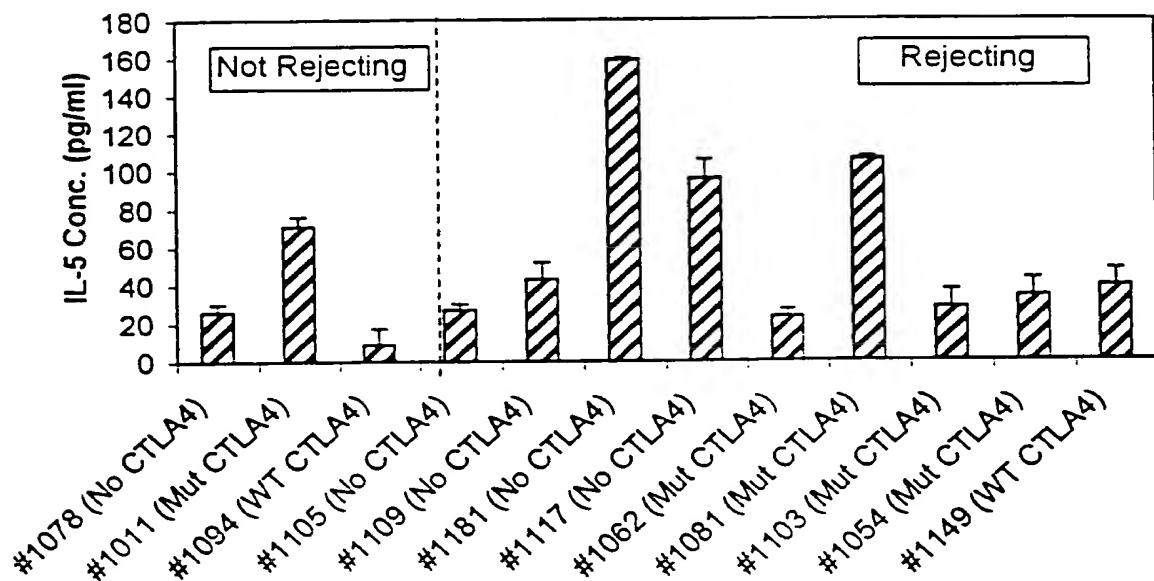


FIG. 44B IL-4 secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting



**FIG. 45A IL-5 present in peritoneal fluid on sac day
Transplanted NODs**



**FIG. 45B IL-5 present in peritoneal fluid on sac day
Untransplanted mice**

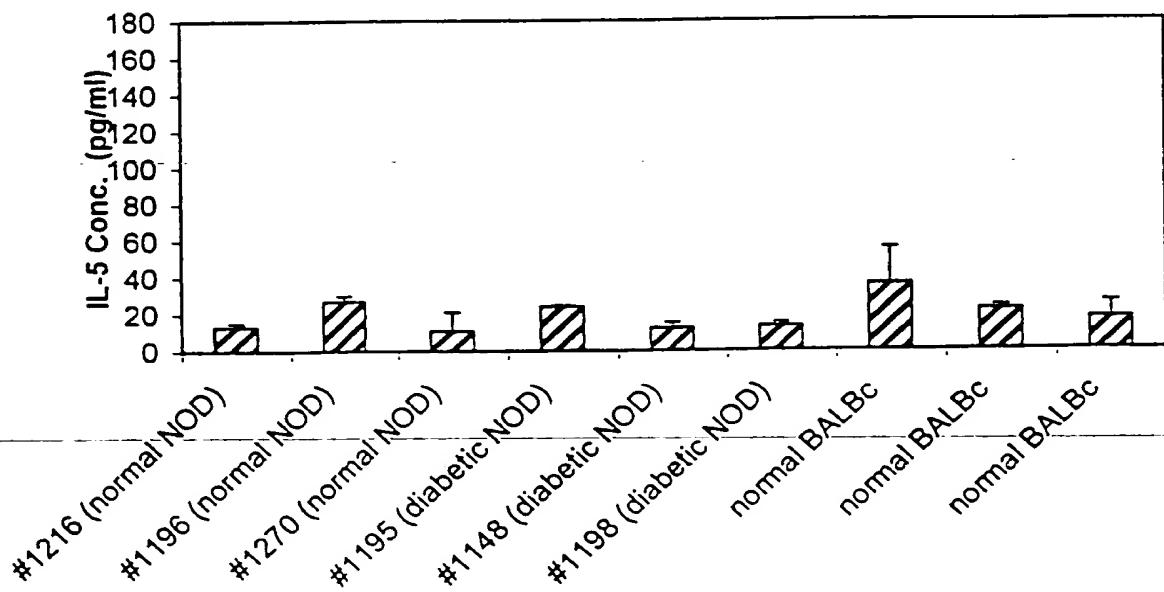


FIG. 46A IL-10 present in peritoneal fluid on sac day
Transplanted NODs

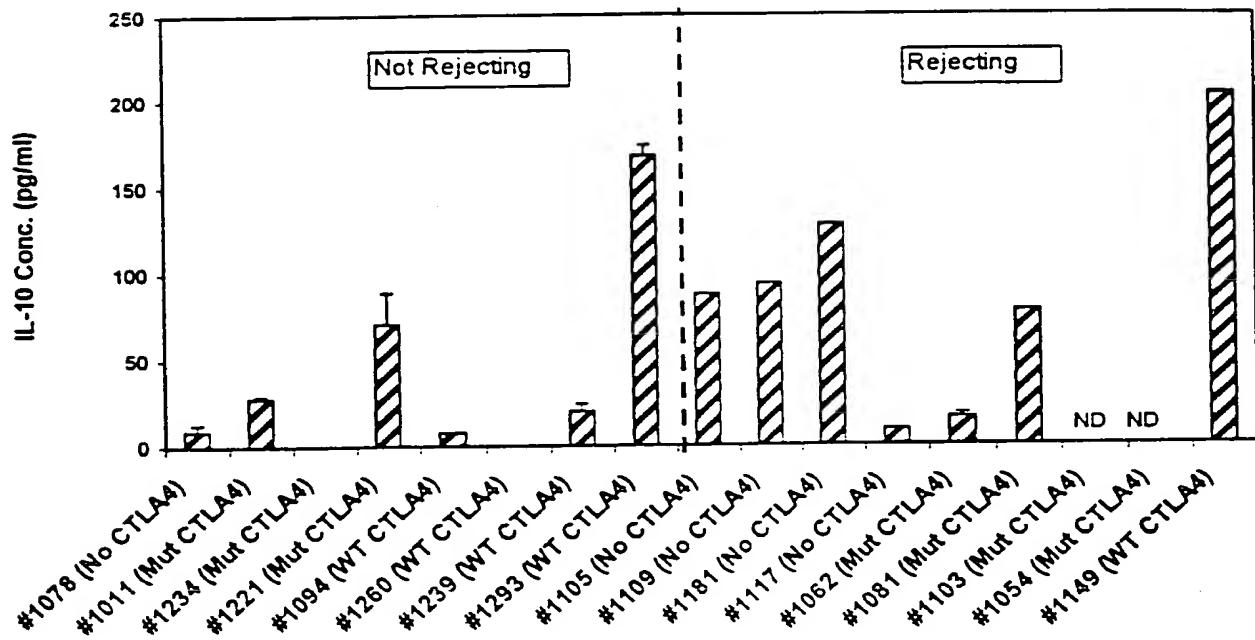


FIG. 46B IL-10 present in peritoneal fluid on sac day
Untransplanted mice

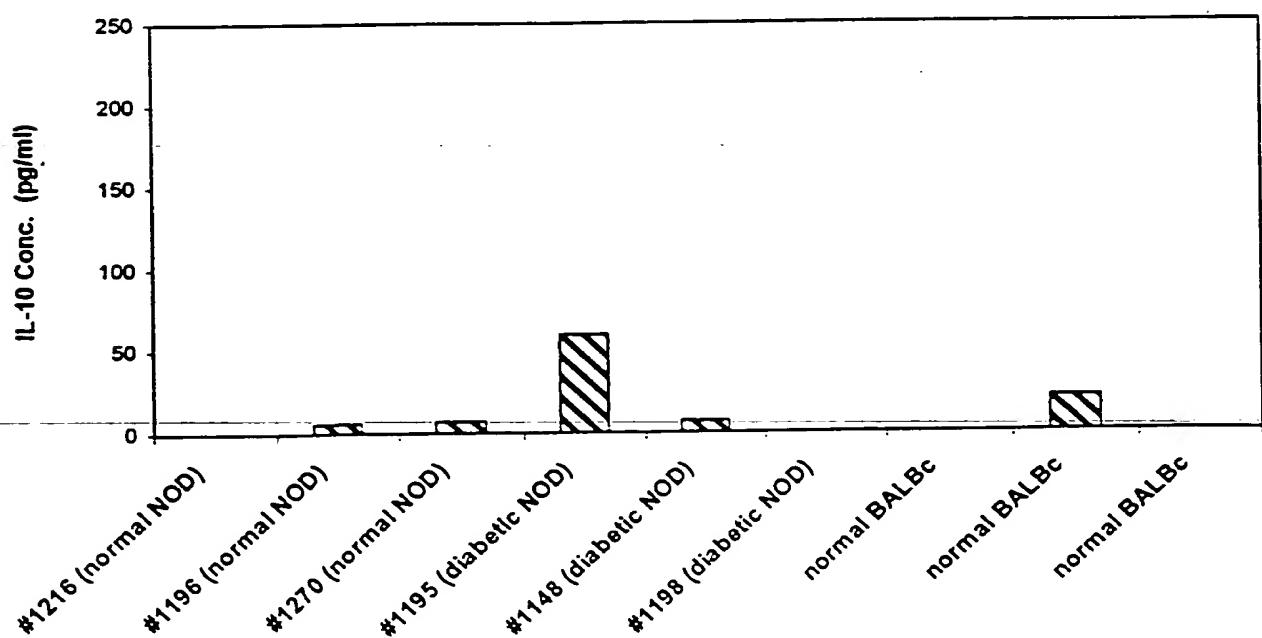


FIG. 47A IL-10 secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

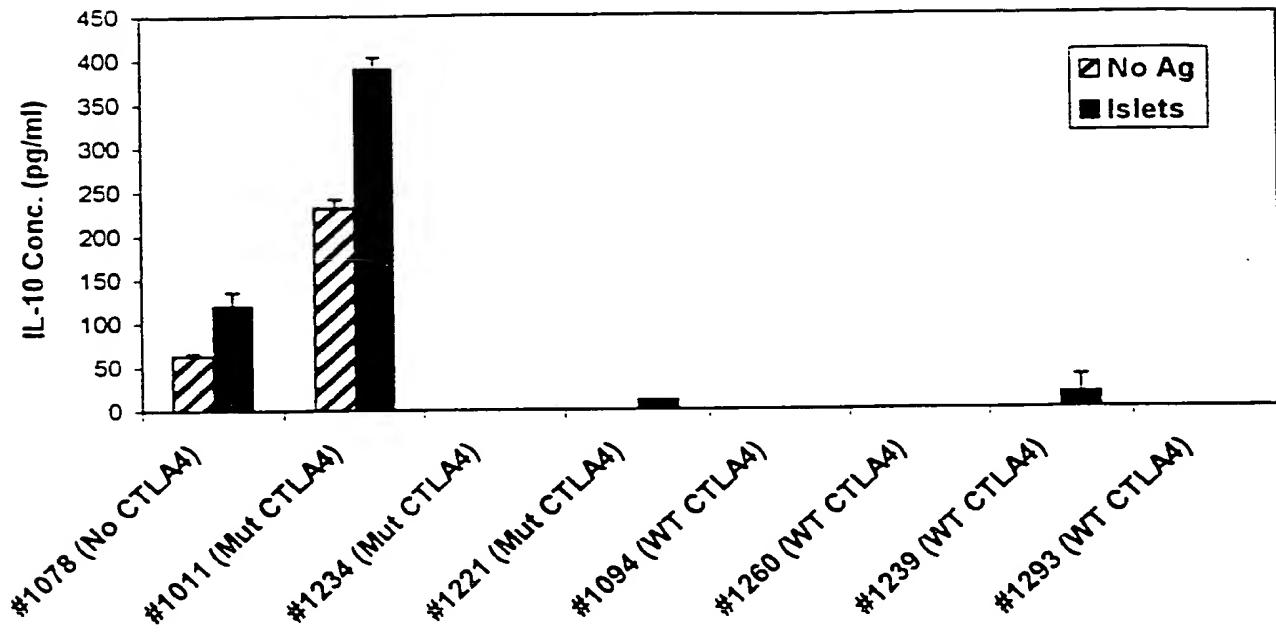


FIG. 47B IL-10 secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting

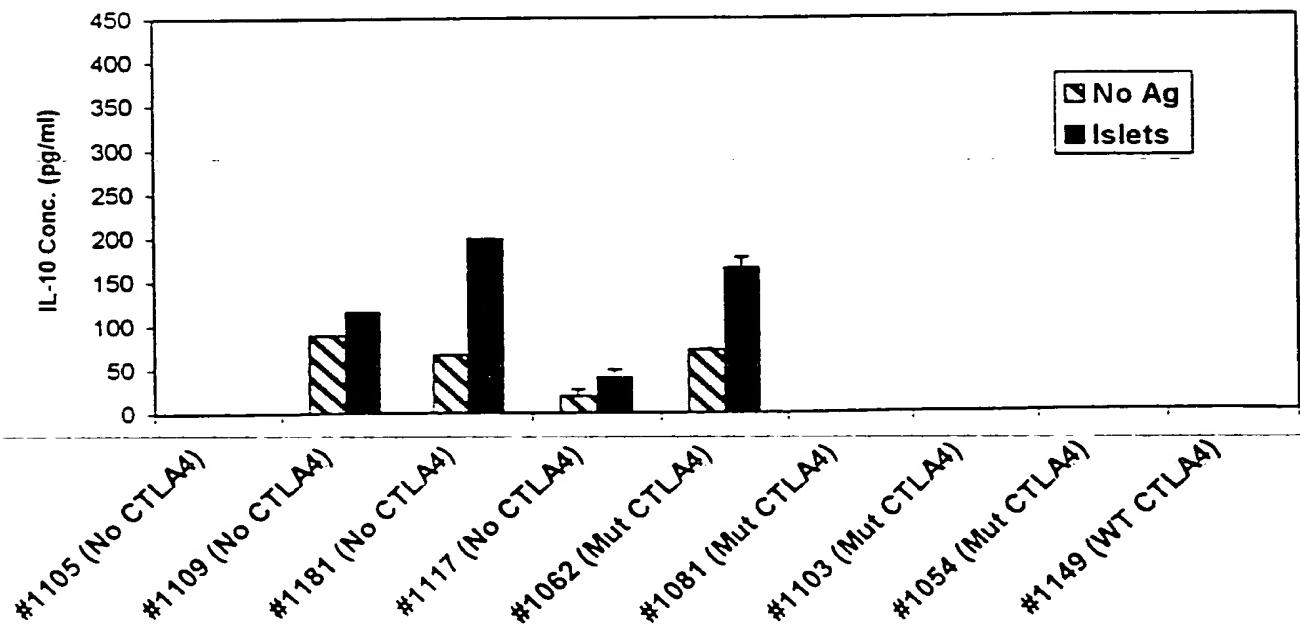


FIG. 48A IL-12 present in peritoneal fluid on sac day
Transplanted NODs

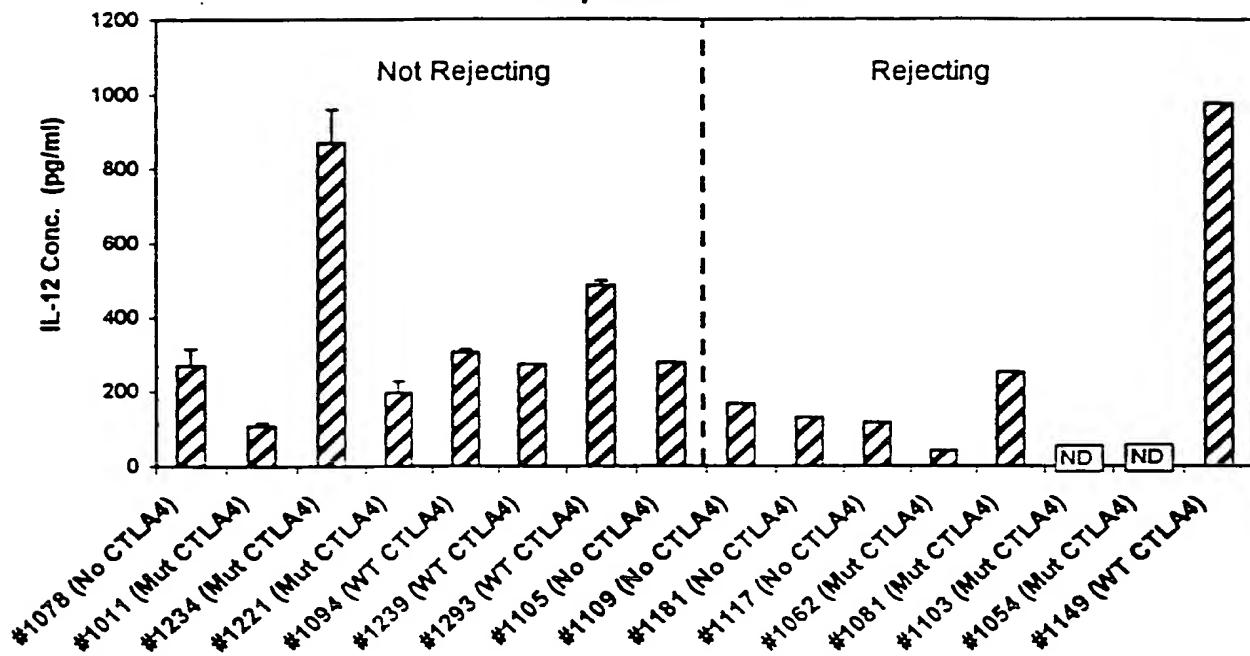


FIG. 48B IL-12 present in peritoneal fluid on sac day
Untransplanted mice

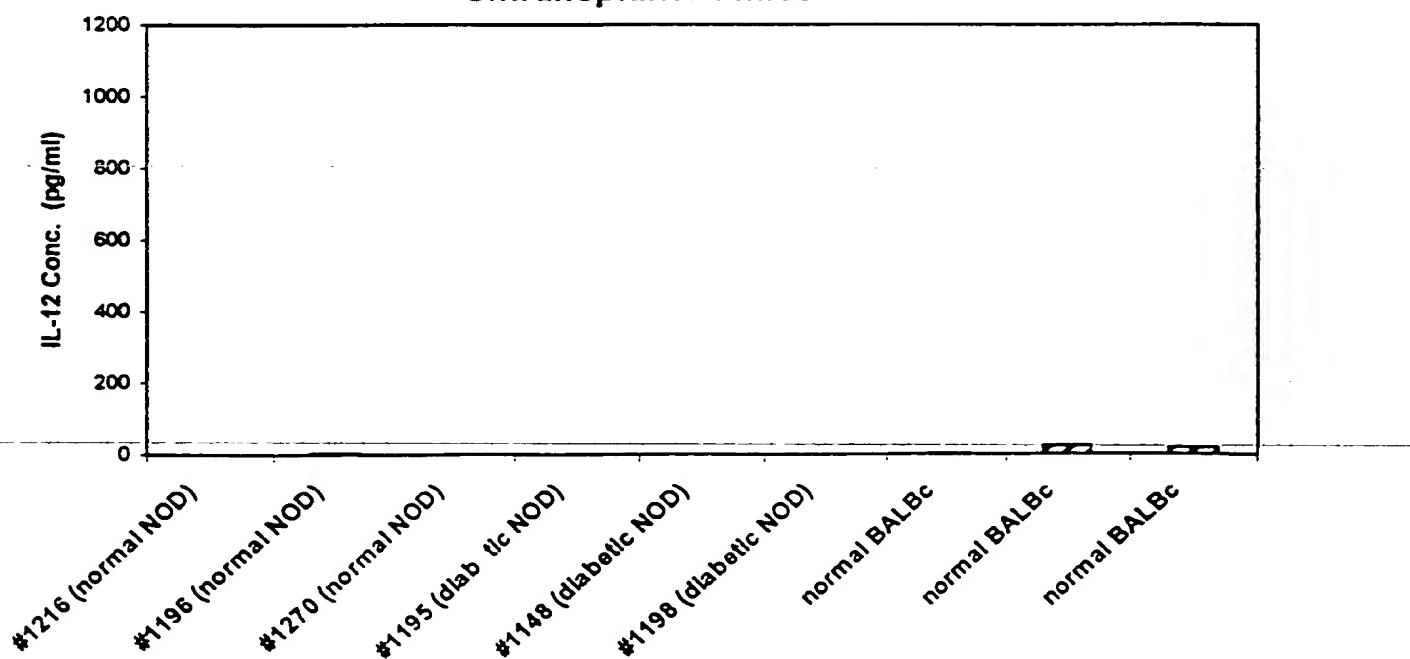


FIG. 49A IL-12 secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

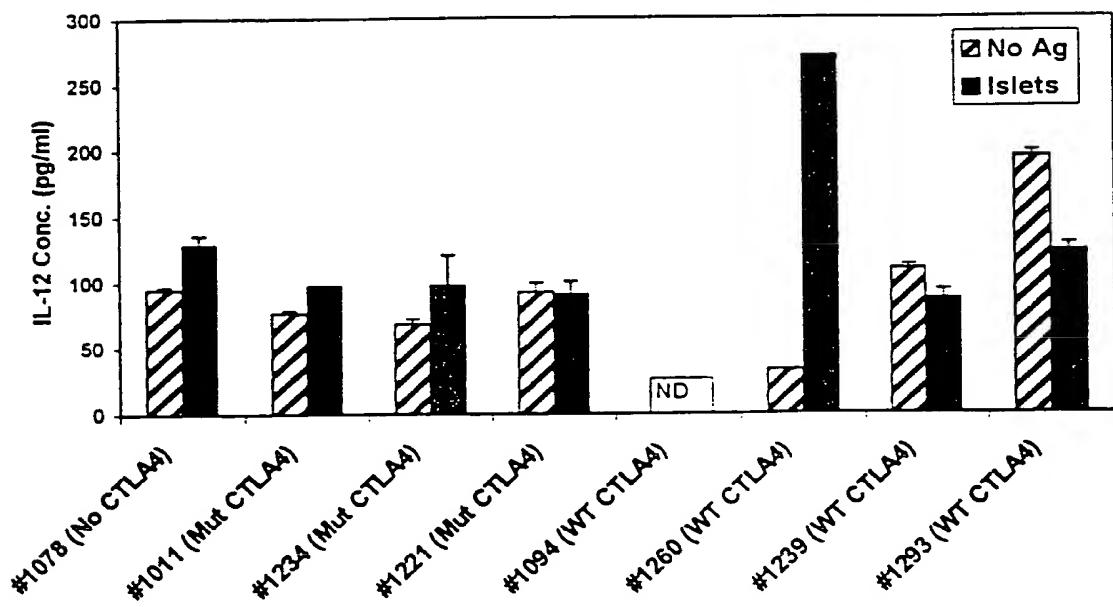


FIG. 49B IL-12 secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting

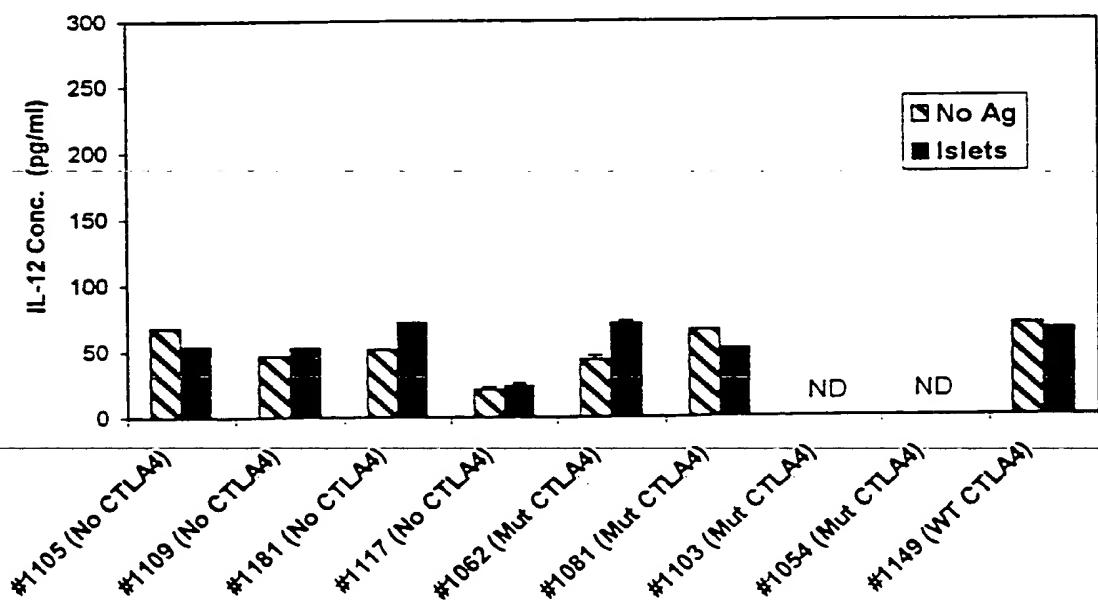


FIG. 50A TNF alpha present in peritoneal fluid on sac day
Transplanted NODs

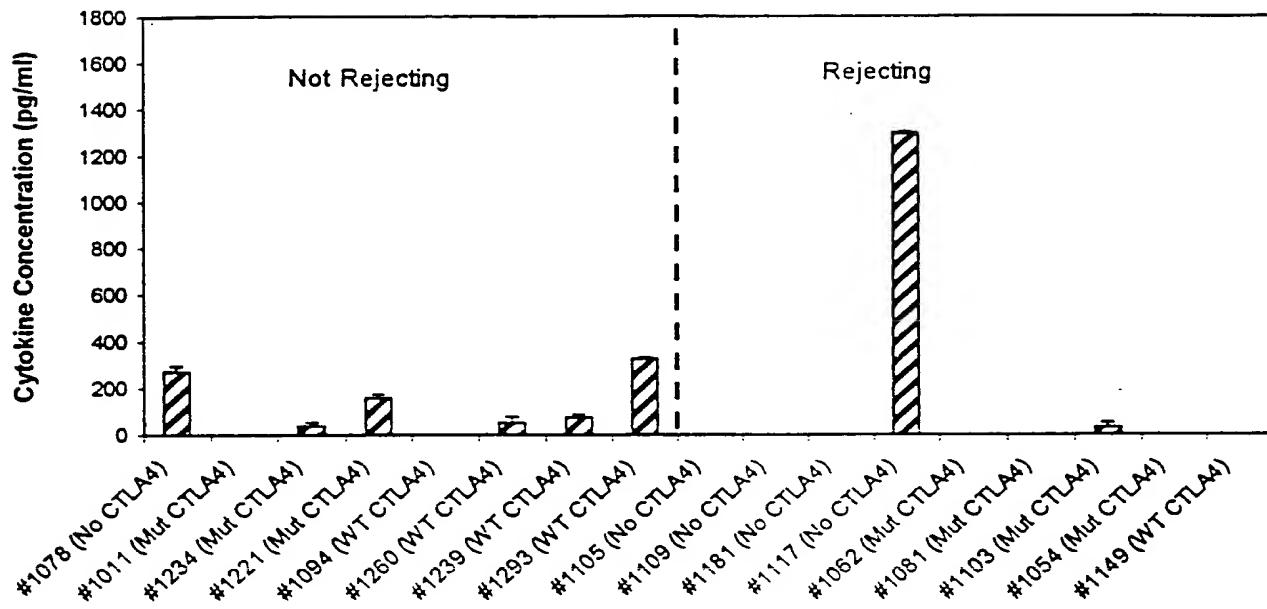


FIG. 50B TNF alpha present in peritoneal fluid on sac day
Untransplanted NODs

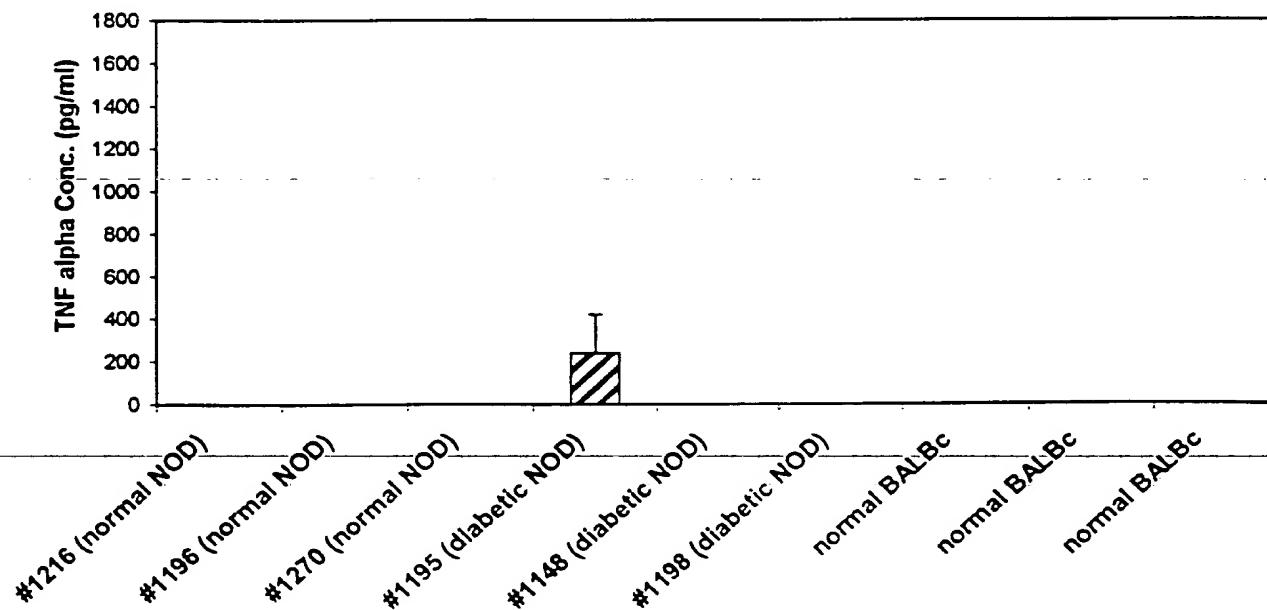


FIG. 51A TNF- α secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

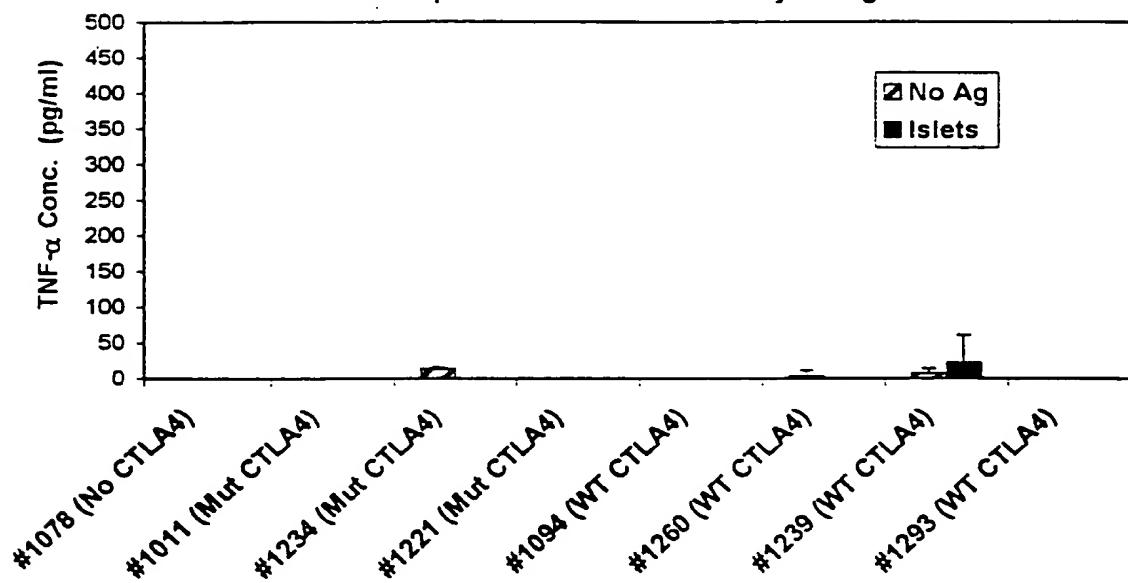


FIG. 51B TNF- α secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting

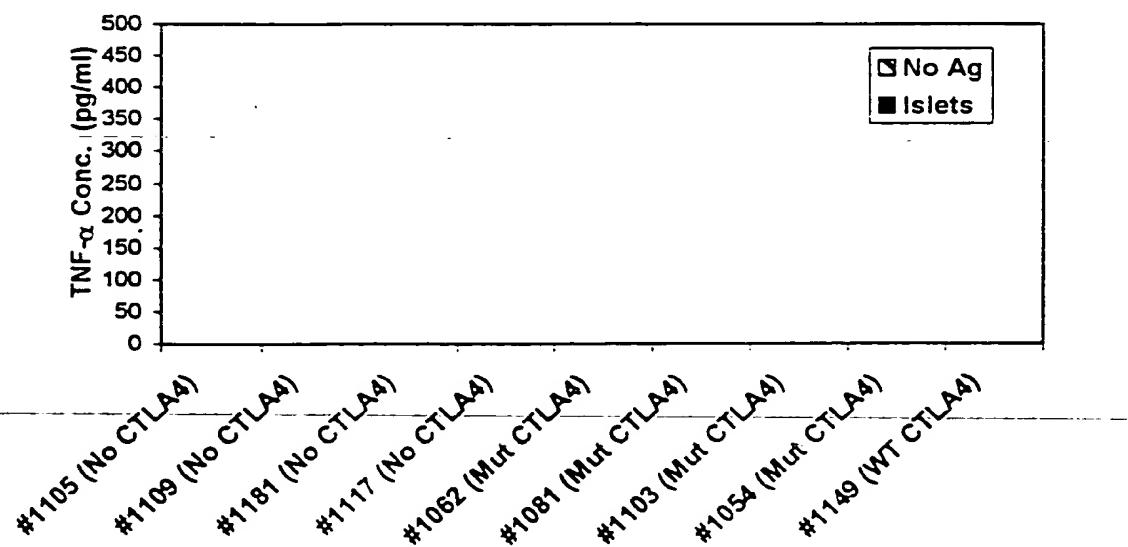


FIG. 52A TGF beta present in peritoneal fluid on sac day
Transplanted NODs

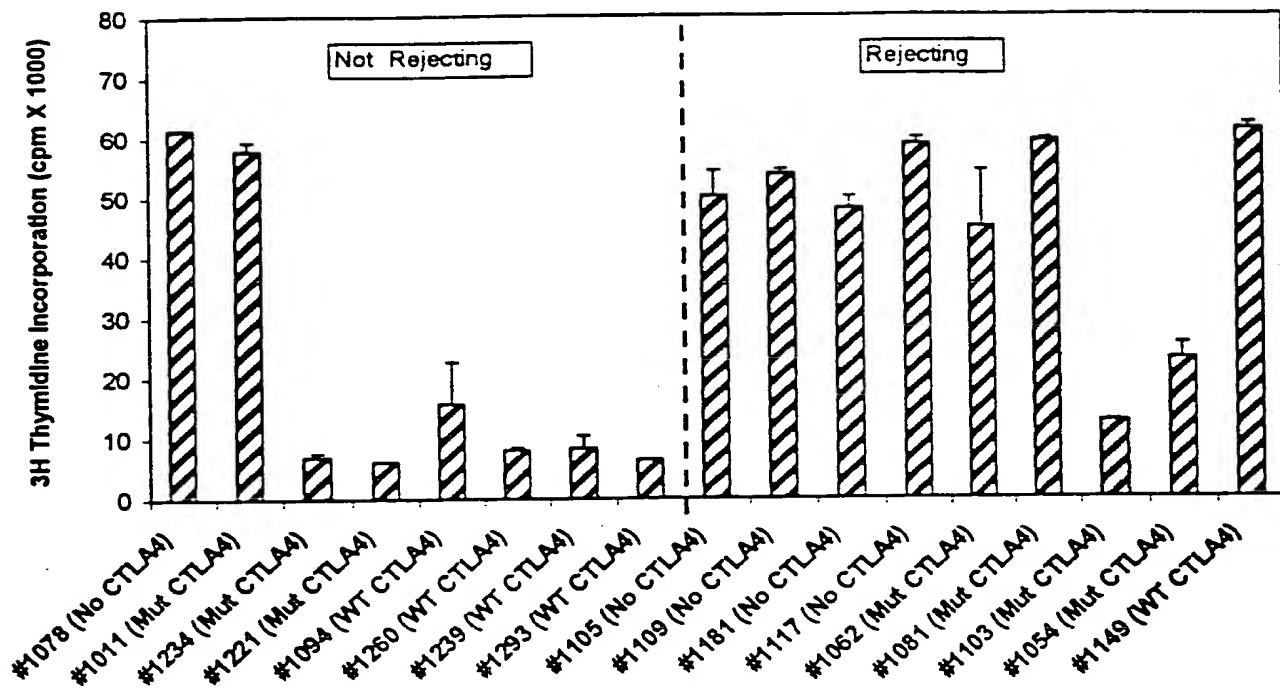


FIG. 52B TGF beta present in peritoneal fluid on sac day
Untransplanted mice

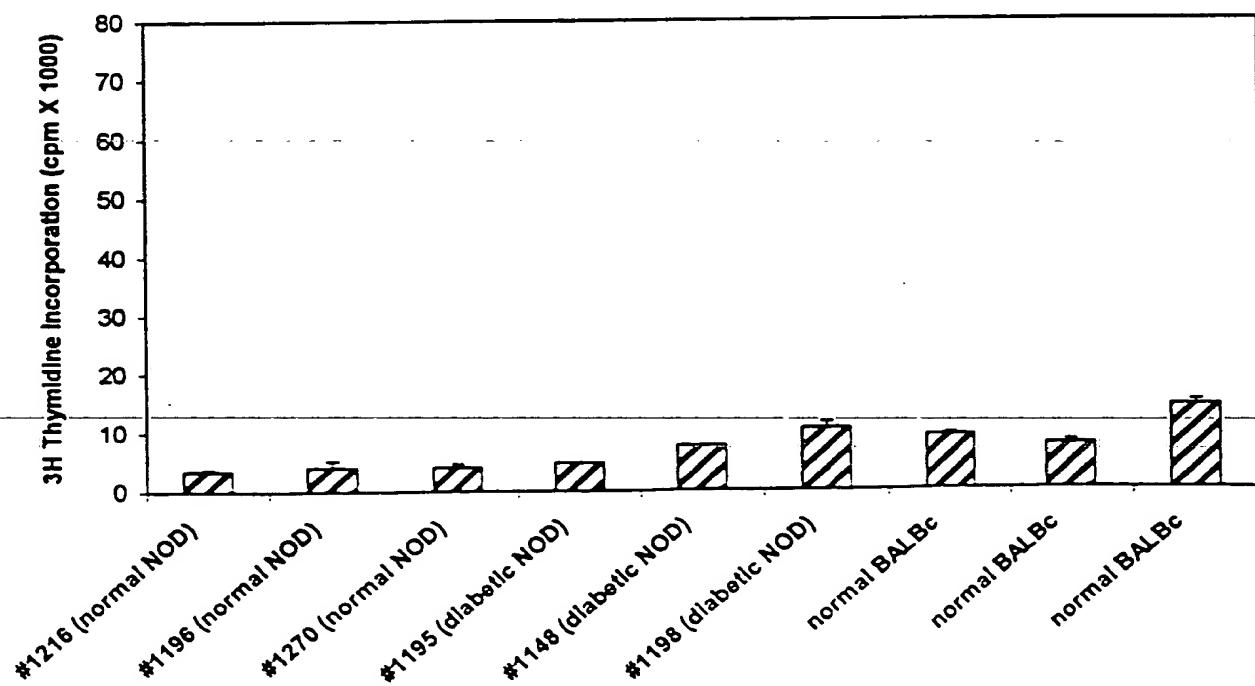


FIG. 53A TGF- β secreted by SPC cultured with porcine islets
Transplanted NODs - Not Rejecting

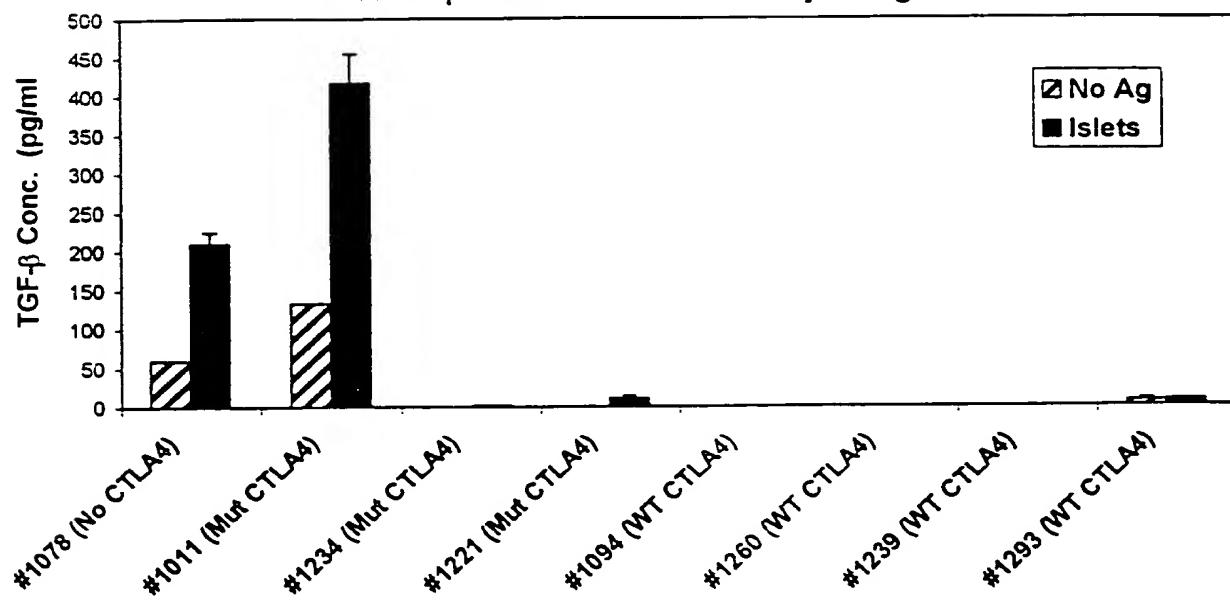


FIG. 53B TGF- β secreted by SPC cultured with porcine islets
Transplanted NODs - Rejecting

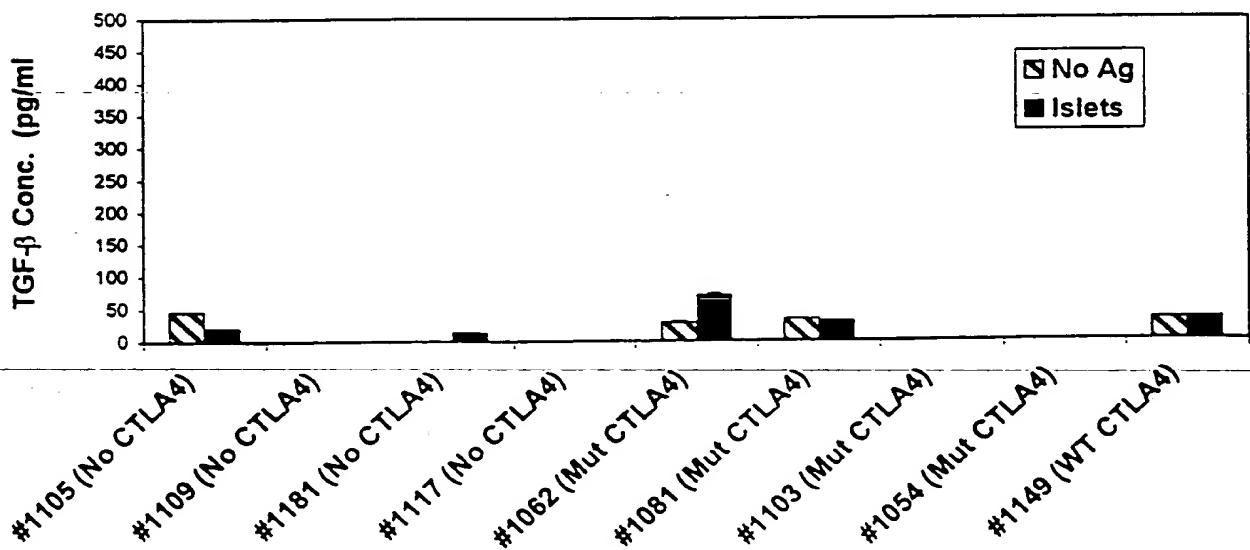


FIG. 54A NO₂ produced by SPCs cultured with pig islets
Transplanted NODs - Not Rejecting

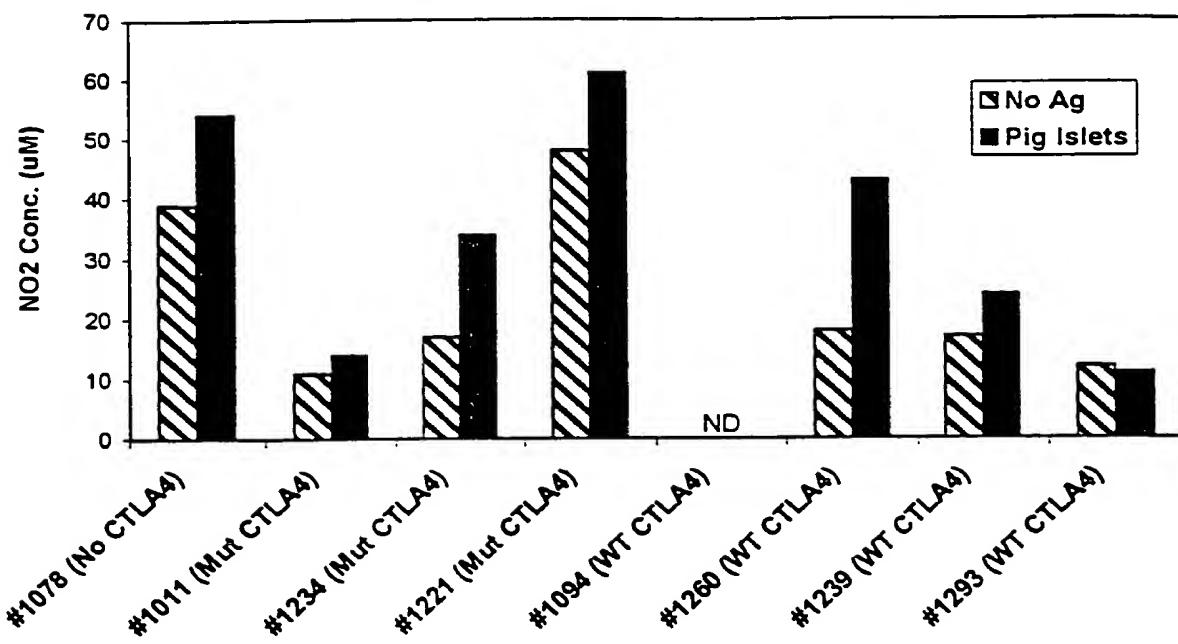


FIG. 54B Transplanted NODs - Rejecting

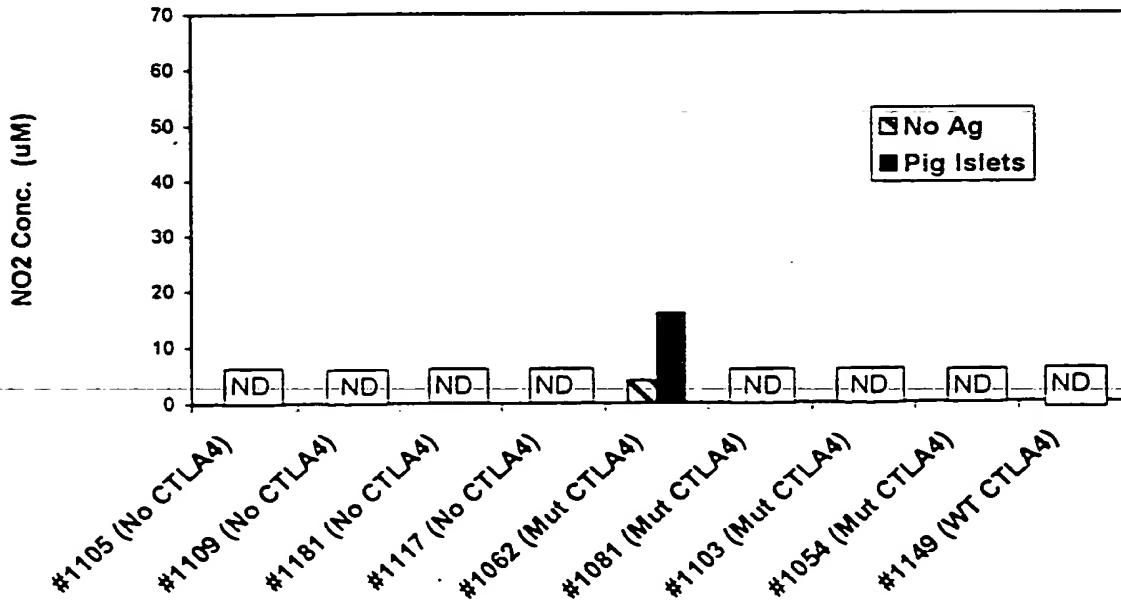
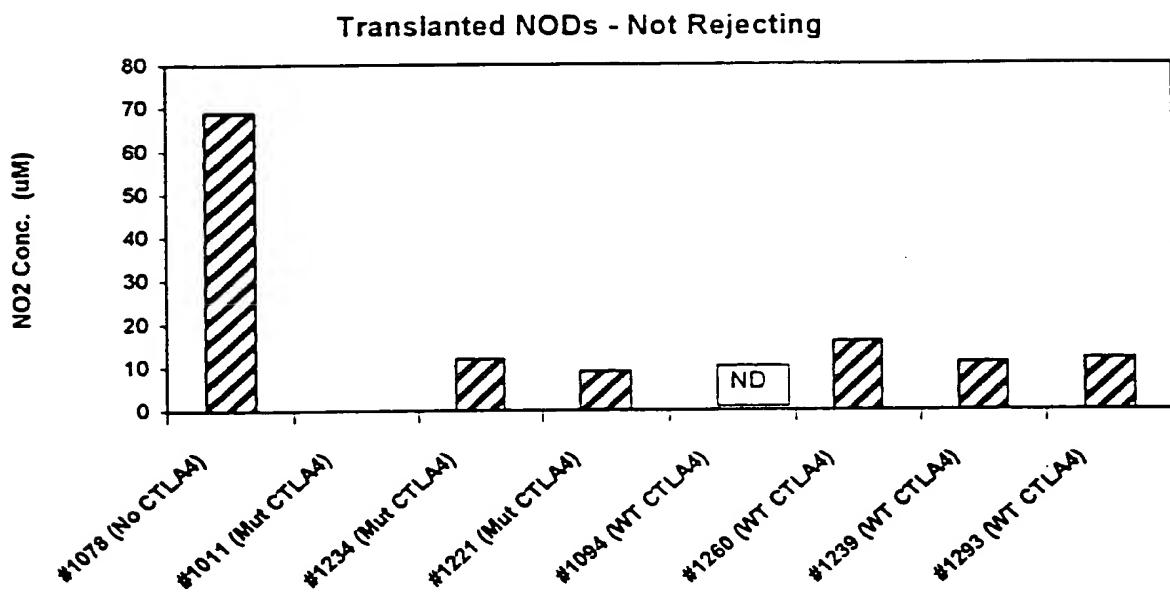


FIG. 55A

NO₂ produced by PECs after 96 hr in culture
with original encapsulated porcine islets

**FIG. 55B**

Transplanted NODs - Rejecting

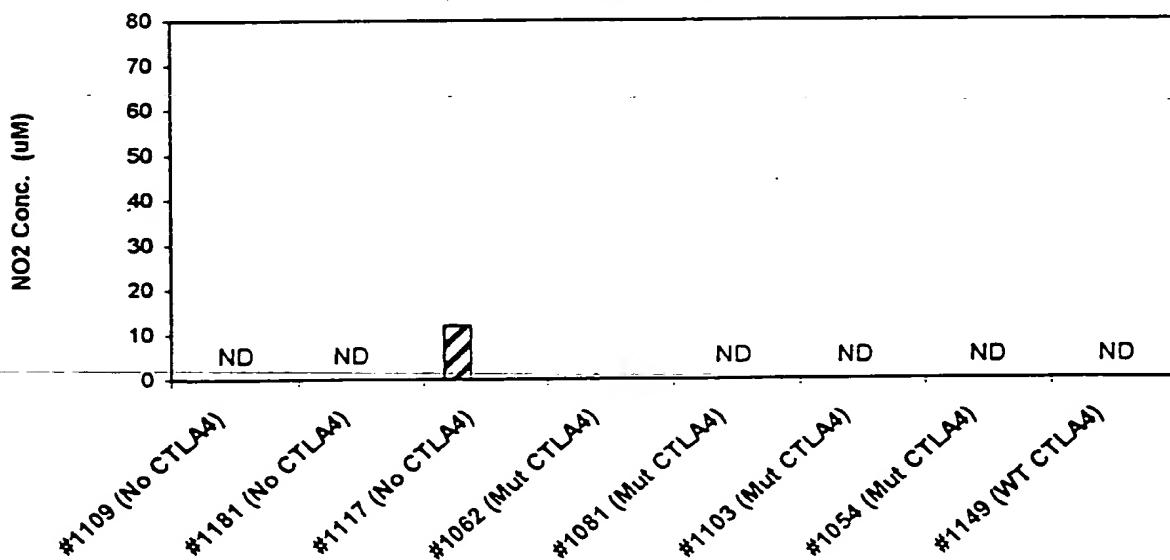


FIG. 56
**Proliferation of SPC from NOD #11335 to pig islets or insulin
(Expt 288)**

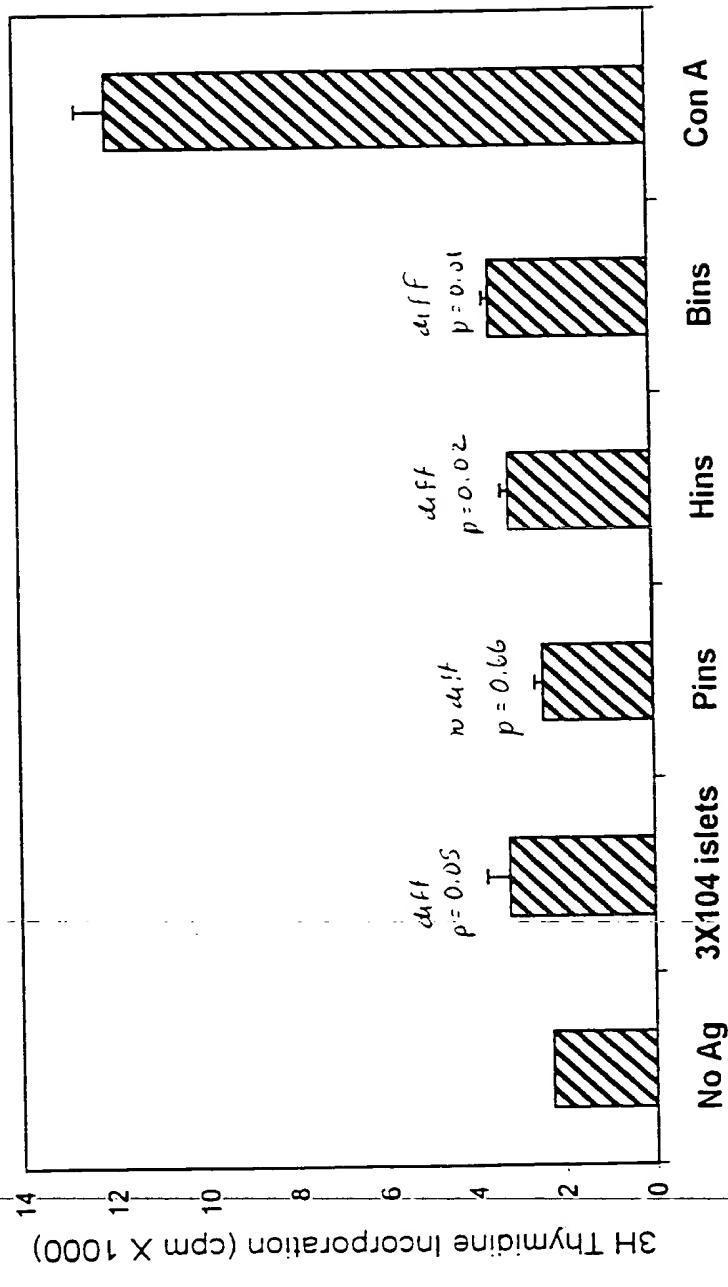


FIG. 57A Proliferation of SPC from NOD #1335
to pig islet cells in vitro (Expt 288)

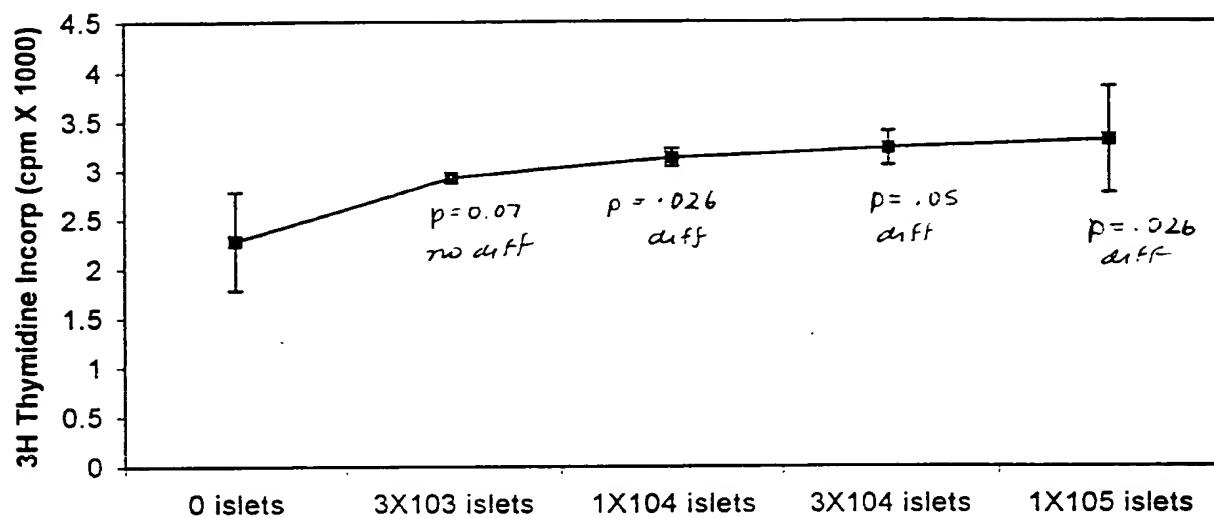
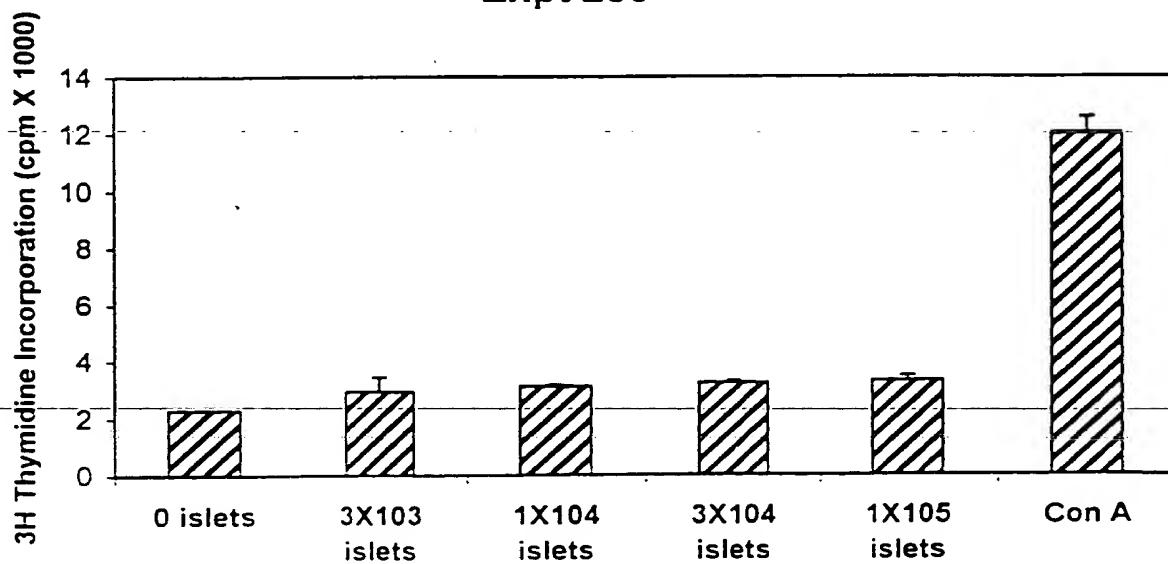


FIG. 57B Proliferation of SPC from NOD #1335
Expt 288



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FIG. 58 NO₂ Production by Cells from NOD #1335 (Expt 288)

